



ANALYTICAL DATA REPORT

JMC Environmental Consultants
2109 Bridge Avenue
Building B
Point Pleasant, NJ 08742

Project Name: **ARSYNCO**
IAL Case Number: **E13-11967**

These data have been reviewed and accepted by:

A handwritten signature in black ink, appearing to read "Michael H. Leftin".

Michael H. Leftin, Ph.D.
Laboratory Director

This report shall not be reproduced, except in its entirety, without the written consent of Integrated Analytical Laboratories, LLC. The test results included in this report relate only to the samples analyzed. The results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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IAL is a NELAC New Jersey Certified Lab (14751) and maintains certification in Connecticut (PH-0699), New York (11402), Rhode Island (00126), Pennsylvania (68-00773) and in the Department of Navy IR QA Program

Sample Summary

IAL Case No.

E13-11967

Client JMC Environmental Consultants

Project ARSYNCO

Received On 12/ 3/2013@17:20

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Depth Top/Bottom</u>	<u>Sampling Time</u>	<u>Matrix</u>	<u># of Container</u>
11967-001	BB-49(0-1.0)	0/1	12/ 3/2013@10:10	Soil	1
11967-002	BB-49(1.0-2.0)	1/2	12/ 3/2013@10:11	Soil	1
11967-003	CC-49(0-1.0)	0/1	12/ 3/2013@10:22	Soil	1
11967-004	CC-49(1.0-2.0)	1/2	12/ 3/2013@11:05	Soil	1
11967-005	FB-41	n/a	12/ 3/2013@15:12	Aqueous	2

INTEGRATED ANALYTICAL LABORATORIES, LLC.

TABLE OF CONTENTS

	<u>Page</u>
Qualifiers	1
Conformance / NonConformance Summaries	2
Results Summary Report	6
Analytical Results	8
PCBs	
Methodology Summary *	
PCBs	14
PCBs QC Summary	15
Surrogate Percent Recovery Summary	
LCS, MS/MSD Recovery Summary	
Method Blank Summary	
Initial Calibration Summary	
Initial/Continuing Calibration Verification Summary	
Retention Time Shift Summary	
PCBs Sample Data	43
Sample Quant Report and Chromatogram	
Method Blank Results	
Method Blank Quant Report and Chromatogram	
Sample Tracking	60
Chains of Custody	
Project Information	
Sample Receipt Verification	
Laboratory Chronicle	
Last Page of the Report	64

This report was finalized on December 20, 2013

* Methodology is included in the IAL Project Information Page

INTEGRATED ANALYTICAL LABORATORIES, LLC.

DEFINITIONS / QUALIFIERS

DATA QUALIFIERS

- B Indicates the analyte was found in the associated method blank as well as in the sample.
It indicates probable laboratory contamination.
- C Indicates analyte is a common laboratory contaminant.
- D Indicates analyte was reported from diluted analysis.
- E Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument.
- J Indicates an estimated value. This flag is used when the concentration in the sample is below the RL but above the MDL or for qualification of tentatively identified compounds.
- N Presumptive evidence of a compound from the use of GC/MS library search.
- X Indicates samples analyzed for total and dissolved metals differ at $\leq 20\%$ RPD.
- Z Indicates internal standard failure. Sample results are either biased high or biased low.

REPORTING DEFINITIONS

- RL Reporting Limit. The RL is determined by the lowest concentration in the calibration curve. For most Wet Chemistry methods, the RL is defined by using the PQL.
- MDL Method Detection Limit as determined according to 40CFR Part 136 Appendix B.
- PQL Practical Quantitation Limit. Usually defined as a value 3-5 times the MDL.
- ND Indicates analyte was analyzed for but not detected above the MDL.
- DF Dilution Factor
- LCS Laboratory Control Sample
- LCSD Laboratory Control Sample Duplicate
- MS Matrix Spike
- MSD Matrix Spike Duplicate
- DUP Duplicate

CONFORMANCE / NON-CONFORMANCE SUMMARIES

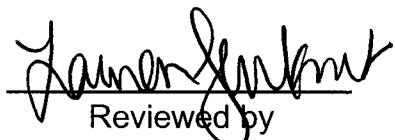
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CONFORMANCE / NONCONFORMANCE SUMMARY

Integrated Analytical Laboratories, LLC. received one (1) aqueous and four (4) soil sample(s) from JMC Environmental Consultants (IAL SDG # E13-11967, Project: ARSYNCO) on December 3, 2013 for the analysis of:

(5) TCL PCB

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:



Reviewed by

12/19/13

Date

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-11967

PCB By 8082A

Batch ID: 131210-02	Matrix: Soil
----------------------------	---------------------

- QC**
- Calibration Curve met QC criteria.
 - Surrogate Percent Recovery did not meet QC criteria. TCMX2 did not pass QC limits due to matrix interference for sample 002.
 - Method Blank met QC criteria.
 - LCS Percent Recovery met QC criteria.
 - MS/MSD Percent Recovery met QC criteria.
 - RPD between MS/MSD met QC criteria.
 - The following samples were cleaned up using method 3660B to remove sulfur: 001, 002, 003, 004
- E13-11967**
- All samples were extracted within holding time.
 - All samples were analyzed within holding time.
 - Retention Time Shift met QC criteria.
 - No dilution was performed for samples 001-004.

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E13-11967

PCB By 8082A

Batch ID: 131209-25	Matrix: Aqueous
----------------------------	------------------------

- QC**
- Calibration Curve met QC criteria.
 - Surrogate Percent Recovery met QC criteria.
 - Method Blank met QC criteria.
 - LCS Percent Recovery met QC criteria.
 - MS/MSD Percent Recovery met QC criteria.
 - RPD between MS/MSD met QC criteria.
 - The following samples were cleaned up using method 3660B to remove sulfur: 005
 - The following samples were cleaned up using method 3665A: 005
- E13-11967**
- All samples were extracted within holding time.
 - All samples were analyzed within holding time.
 - Retention Time Shift met QC criteria.
 - No dilution was performed for sample 005.



12/12/2013

Signature

Date

RESULTS SUMMARY REPORT

INTEGRATED ANALYTICAL LABORATORIES, LLC.

SUMMARY REPORT

Client: JMC Environmental Consultants
Project: ARSYNCO
Lab Case No.: E13-11967

Lab ID:	11967-005								
Client ID:	FB-41								
Matrix:	Aqueous								
Sampled Date	12/3/13								
PARAMETER(Units)	Conc	Q	MDL						
PCB's (Units)	<i>(mg/L-ppm)</i>								
Aroclor-1016	ND	0.00002							
Aroclor-1221	ND	0.00002							
Aroclor-1232	ND	0.00002							
Aroclor-1242	ND	0.00002							
Aroclor-1248	ND	0.00002							
Aroclor-1254	ND	0.00002							
Aroclor-1260	ND	0.00002							
Aroclor-1262	ND	0.00002							
Aroclor-1268	ND	0.00002							
PCBs	ND								
Lab ID:	11967-001	11967-002	11967-003	11967-004					
Client ID:	BB-49(0-1.0)	BB-49(1.0-2.0)	CC-49(0-1.0)	CC-49(1.0-2.0)					
Depth:	0/1	1/2	0/1	1/2					
Matrix:	Soil	Soil	Soil	Soil					
Sampled Date	12/3/13	12/3/13	12/3/13	12/3/13					
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
PCB's (Units)	<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>			<i>(mg/Kg-ppm)</i>		
Aroclor-1016	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
Aroclor-1221	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
Aroclor-1232	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
Aroclor-1242	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
Aroclor-1248	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
Aroclor-1254	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
Aroclor-1260	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
Aroclor-1262	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
Aroclor-1268	ND	0.022	ND	0.057	ND	0.017	ND	0.018	
PCBs	ND			ND			ND		

ND = Analyzed for but Not Detected at the MDL

ANALYTICAL RESULTS

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E13-11967-001
Client ID: BB-49(0-
Date Received: 12/03/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/10/2013
Data file: R5804.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.01g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 26.0

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.054	0.022
Aroclor-1221	ND		0.054	0.022
Aroclor-1232	ND		0.054	0.022
Aroclor-1242	ND		0.054	0.022
Aroclor-1248	ND		0.054	0.022
Aroclor-1254	ND		0.054	0.022
Aroclor-1260	ND		0.054	0.022
Aroclor-1262	ND		0.054	0.022
Aroclor-1268	ND		0.054	0.022
PCBs	ND		0.054	0.022

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E13-11967-002
Client ID: BB-49(1.
Date Received: 12/03/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/10/2013
Data file: R5805.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.09g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 72.4

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.142	0.057
Aroclor-1221	ND		0.142	0.057
Aroclor-1232	ND		0.142	0.057
Aroclor-1242	ND		0.142	0.057
Aroclor-1248	ND		0.142	0.057
Aroclor-1254	ND		0.142	0.057
Aroclor-1260	ND		0.142	0.057
Aroclor-1262	ND		0.142	0.057
Aroclor-1268	ND		0.142	0.057
PCBs	ND		0.142	0.057

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E13-11967-003
Client ID: CC-49(0-
Date Received: 12/03/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/10/2013
Data file: R5806.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.22g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 9.80

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.043	0.017
Aroclor-1221	ND		0.043	0.017
Aroclor-1232	ND		0.043	0.017
Aroclor-1242	ND		0.043	0.017
Aroclor-1248	ND		0.043	0.017
Aroclor-1254	ND		0.043	0.017
Aroclor-1260	ND		0.043	0.017
Aroclor-1262	ND		0.043	0.017
Aroclor-1268	ND		0.043	0.017
PCBs	ND		0.043	0.017

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E13-11967-004
Client ID: CC-49(1.
Date Received: 12/03/2013
Date Extracted: 12/10/2013
Date Analyzed: 12/10/2013
Data file: R5807.D

GC Column: DB-5/DB1701P
Sample wt/vol: 5.10g
Matrix-Units: Soil-mg/Kg (ppm)
Dilution Factor: 1
% Moisture: 13.8

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.045	0.018
Aroclor-1221	ND		0.045	0.018
Aroclor-1232	ND		0.045	0.018
Aroclor-1242	ND		0.045	0.018
Aroclor-1248	ND		0.045	0.018
Aroclor-1254	ND		0.045	0.018
Aroclor-1260	ND		0.045	0.018
Aroclor-1262	ND		0.045	0.018
Aroclor-1268	ND		0.045	0.018
PCBs	ND		0.045	0.018

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: E13-11967-005

Client ID: FB-41

Date Received: 12/03/2013

Date Extracted: 12/09/2013

Date Analyzed: 12/11/2013

Data file: Y3448.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous-mg/L (ppm)

Dilution Factor: 1

% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.00005	0.00002
Aroclor-1221	ND		0.00005	0.00002
Aroclor-1232	ND		0.00005	0.00002
Aroclor-1242	ND		0.00005	0.00002
Aroclor-1248	ND		0.00005	0.00002
Aroclor-1254	ND		0.00005	0.00002
Aroclor-1260	ND		0.00005	0.00002
Aroclor-1262	ND		0.00005	0.00002
Aroclor-1268	ND		0.00005	0.00002
PCBs	ND		0.00005	0.00002

D --- Dilution Performed

B --- Compound detected in Blank

J --- Value Less than RL & great than MDL

C --- Common laboratory contamination

E --- Exceeds upper level of Calibration curve

PCB DATA

PCB QC SUMMARY

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 12/10/2013

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKS131210-02	SOIL	108		103		133		139	
PCB	LCSS131210-02	SOIL	109		100		134		125	
II-45_(0	E13-11911-001	SOIL	121		107		146		133	
II-45_(1	E13-11911-002	SOIL	109		98		130		124	
II-45_(2	E13-11911-003	SOIL	109		97		128		119	
II-44_(0	E13-11911-004	SOIL	111		100		130		121	
II-44_(1	E13-11911-005	SOIL	135		130		159	M	131	
II-44_(2	E13-11911-006	SOIL	133		122		153	M	148	
HH-35_(5	E13-11911-007	SOIL	118		104		139		113	
HH-35_(6	E13-11911-008	SOIL	116		118		137		138	
JJ-43_(0	E13-11911-009	SOIL	143		133		171	M	145	
JJ-43_(1	E13-11911-010	SOIL	144		135		173	M	149	
JJ-43_(2	E13-11911-011	SOIL	150		138		182	M	148	
JJ-44_(0	E13-11911-012	SOIL	106		96		124		117	
JJ-44_(1	E13-11911-013	SOIL	110		94		131		120	
JJ-44_(2	E13-11911-014	SOIL	108		101		127		122	
BB-49(0-	E13-11967-001	SOIL	101		96		127		120	
BB-49(1.	E13-11967-002	SOIL	134		125		160	M	136	
CC-49(0-	E13-11967-003	SOIL	104		86		121		108	
CC-49(1.	E13-11967-004	SOIL	107		89		124		117	
WC-2/0-1	E13-12081-002	SOIL	78		84		80		102	
WASTE_CL	E13-12167-001	SOIL	105		103		122		97	
PCB	12167-001MS	SOIL	106		93		122		99	
PCB	12167-001MSD	SOIL	107		86		124		107	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil **Aqueous/Leachate**

30-150 30-150

30-150 30-150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SURROGATE PERCENT RECOVERY SUMMARY

Date Analyzed: 12/11/2013

Client ID	Sample ID	Matrix	TCMX 1		DCB 1		TCMX 2		DCB 2	
			% rec	#	% rec	#	% rec	#	% rec	#
PCB	BLKA131209-25	AQUEOUS	103		66		109		77	
PCB	LCSA131209-25	AQUEOUS	99		63		104		72	
FB-40	E13-11911-015	AQUEOUS	107		68		113		70	
TW-1/4.6	E13-12050-004	AQUEOUS	71		64		78		66	
FB	E13-12164-009	AQUEOUS	92		60		99		63	
FB-41	E13-11967-005	AQUEOUS	104		67		112		72	
WEIR_STA	E13-11945-001	AQUEOUS	93		74		99		73	
PCB	11945-001MS	AQUEOUS	98		78		104		79	
PCB	11945-001MSD	AQUEOUS	103		78		110		87	

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

DCB = Decachlorobiphenyl

Soil Aqueous/Leachate

30-150 30-150

30-150 30-150

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

SOIL PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSS131210-02

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	533.5	107	40 - 140
Aroclor-1260	500.0	0.0	601.9	120	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

AQUEOUS PCB LCS ACCURACY RECOVERY

Matrix spike Lab sample ID: LCSA131209-25

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	393.0	79	40 - 140
Aroclor-1260	500.0	0.0	357.5	72	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

Spike Recovery: 0 out of 2 outside limits

SOIL PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: E13-12167-001

Compound	SPIKE ADDED (ug/Kg)	SAMPLE CONC. (ug/Kg)	MS CONC. (ug/Kg)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	510.7	102	40 - 140
Aroclor-1260	500.0	0.0	618.5	124	40 - 140

Compound	SAMPLE CONC. (ug/Kg)	MSD CONC. (ug/Kg)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	490.5	98	4	50	40 - 140
Aroclor-1260	0.0	564.9	113	9	50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

AQUEOUS PCB MS/MSD ACCURACY RECOVERY

Matrix spike Lab sample ID: 11945-001

Compound	SPIKE ADDED (ug/L)	SAMPLE CONC. (ug/L)	MS CONC. (ug/L)	MS % REC #	QC LIMITS REC.
Aroclor-1016	500.0	0.0	442.0	88	40 - 140
Aroclor-1260	500.0	0.0	427.4	85	40 - 140

Compound	SAMPLE CONC. (ug/L)	MSD CONC. (ug/L)	MSD % # REC	% RPD #	QC LIMITS RPD	REC.
Aroclor-1016	0.0	464.7	93	6	50	40 - 140
Aroclor-1260	0.0	447.9	90	6	50	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

NC Non calculable

RPD: 0 out of 2 outside limits

Spike Recovery: 0 out of 4 outside limits

PCB METHOD BLANK SUMMARY

Lab File ID: R5787.D Instrument ID: GC-R

Date Extracted: 12/10/2013 Matrix: SOIL

Date Analyzed: 12/10/2013 Time Analyzed: 16:01

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSS131210-02	12/10/2013	16:19
II-45_(0	E13-11911-001	12/10/2013	16:36
II-45_(1	E13-11911-002	12/10/2013	16:54
II-45_(2	E13-11911-003	12/10/2013	17:11
II-44_(0	E13-11911-004	12/10/2013	17:28
II-44_(1	E13-11911-005	12/10/2013	17:46
II-44_(2	E13-11911-006	12/10/2013	18:03
HH-35_(5	E13-11911-007	12/10/2013	18:21
HH-35_(6	E13-11911-008	12/10/2013	18:38
JJ-43_(0	E13-11911-009	12/10/2013	18:56
JJ-43_(1	E13-11911-010	12/10/2013	19:13
JJ-43_(2	E13-11911-011	12/10/2013	19:30
JJ-44_(0	E13-11911-012	12/10/2013	19:48
JJ-44_(1	E13-11911-013	12/10/2013	20:05
JJ-44_(2	E13-11911-014	12/10/2013	20:23
BB-49(0-	E13-11967-001	12/10/2013	21:50
BB-49(1.	E13-11967-002	12/10/2013	22:07
CC-49(0-	E13-11967-003	12/10/2013	22:25
CC-49(1.	E13-11967-004	12/10/2013	22:42
WC-2/0-1	E13-12081-002	12/10/2013	22:59
WASTE_CL	E13-12167-001	12/10/2013	23:17
PCB	12167-001MS	12/10/2013	23:34
PCB	12167-001MSD	12/10/2013	23:52

PCB METHOD BLANK SUMMARY

Lab File ID: Y3443.D Instrument ID: GC-Y
Date Extracted: 12/09/2013 Matrix: AQUEOUS
Date Analyzed: 12/11/2013 Time Analyzed: 20:14

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS or LCSD, MS or MSD:

Client ID	Lab Sample ID	Date Analyzed	Time Analyzed
PCB	LCSA131209-25	12/11/2013	20:32
FB-40	E13-11911-015	12/11/2013	20:49
TW-1/4.6	E13-12050-004	12/11/2013	21:06
FB	E13-12164-009	12/11/2013	21:24
FB-41	E13-11967-005	12/11/2013	21:41
WEIR_STA	E13-11945-001	12/11/2013	21:58
PCB	11945-001MS	12/11/2013	22:15
PCB	11945-001MSD	12/11/2013	22:33

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R5406.D R5405.D R5404.D R5403.D R5402.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.20	3.20	3.20	3.20	3.20	3.20	3.13	3.27
Aroclor-1016 {2}	4.03	4.03	4.03	4.03	4.03	4.03	3.96	4.10
Aroclor-1016 {3}	4.59	4.59	4.59	4.59	4.58	4.59	4.52	4.66
Aroclor-1016 {4}	5.09	5.09	5.09	5.09	5.09	5.09	5.02	5.16
Aroclor-1016 {5}	5.49	5.49	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.11				2.04	2.18
Aroclor-1221 {2}			3.00				2.93	3.07
Aroclor-1221 {3}			3.13				3.06	3.20
Aroclor-1221 {4}			3.20				3.13	3.27
Aroclor-1221 {5}			3.80				3.73	3.87
Aroclor-1232			3.20				3.13	3.27
Aroclor-1232 {2}			4.03				3.96	4.10
Aroclor-1232 {3}			4.70				4.63	4.77
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.03				3.96	4.10
Aroclor-1242 {2}			4.97				4.90	5.04
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.27				6.20	6.34
Aroclor-1248			4.43				4.35	4.51
Aroclor-1248 {2}			4.97				4.89	5.05
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.28				6.20	6.36
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.83				6.75	6.91
Aroclor-1254 {3}			7.00				6.91	7.09
Aroclor-1254 {4}			7.45				7.36	7.54
Aroclor-1254 {5}			8.30				8.21	8.39
Aroclor-1260	8.30	8.30	8.29	8.29	8.29	8.29	7.39	9.19
Aroclor-1260 {2}	8.97	8.97	8.97	8.96	8.96	8.97	8.07	9.87
Aroclor-1260 {3}	9.46	9.45	9.45	9.45	9.45	9.45	8.55	10.35
Aroclor-1260 {4}	9.95	9.94	9.94	9.94	9.93	9.94	9.04	10.84
Aroclor-1260 {5}	11.01	11.01	11.00	11.00	11.00	11.00	10.10	11.90

AROCLOL INITIAL CALIBRATION SUMMARY

Date Analyzed:

11/15/2013

Instrument ID:

GC-R

GC Column (1st):

DB-5

Data File:

R5406.D R5405.D R5404.D R5403.D R5402.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	226522	225900	208941	204235	196721	212464	6.25
Aroclor-1016 {2}	301744	306063	286681	283097	272863	290090	4.71
Aroclor-1016 {3}	376785	388550	364042	361858	352041	368655	3.85
Aroclor-1016 {4}	196738	198531	181033	176324	168237	184173	7.13
Aroclor-1016 {5}	287663	297856	289520	290067	283943	289810	1.76
Aroclor-1221			107435				
Aroclor-1221 {2}			161651				
Aroclor-1221 {3}			108933				
Aroclor-1221 {4}			380419				
Aroclor-1221 {5}			81581				
Aroclor-1232			279612				
Aroclor-1232 {2}			164483				
Aroclor-1232 {3}			136840				
Aroclor-1232 {4}			155000				
Aroclor-1232 {5}			198834				
Aroclor-1242			250324				
Aroclor-1242 {2}			154706				
Aroclor-1242 {3}			216074				
Aroclor-1242 {4}			339013				
Aroclor-1242 {5}			289518				
Aroclor-1248			589562				
Aroclor-1248 {2}			342010				
Aroclor-1248 {3}			444855				
Aroclor-1248 {4}			728971				
Aroclor-1248 {5}			493033				
Aroclor-1254			672283				
Aroclor-1254 {2}			411226				
Aroclor-1254 {3}			788025				
Aroclor-1254 {4}			792494				
Aroclor-1254 {5}			712563				
Aroclor-1260	669375	737670	772093	790110	790981	752046	6.78
Aroclor-1260 {2}	332948	339012	359129	346598	357351	347008	3.27
Aroclor-1260 {3}	820066	889329	911436	921093	926473	893679	4.87
Aroclor-1260 {4}	389368	422481	446723	456445	470068	437017	7.28
Aroclor-1260 {5}	188497	209732	214850	213008	212807	207779	5.26
Average %RSD						5.12	

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed:

11/15/2013

Instrument ID:

GC-R

GC Column (2nd):

DB-1701P

Data File:

R5406.C R5405.C R5404.C R5403.C R5402.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.36	3.36	3.36	3.36	3.37	3.37	3.30	3.44
Aroclor-1016 {2}	3.93	3.93	3.93	3.93	3.94	3.93	3.86	4.00
Aroclor-1016 {3}	4.64	4.65	4.64	4.65	4.66	4.65	4.58	4.72
Aroclor-1016 {4}	4.84	4.84	4.84	4.85	4.86	4.85	4.78	4.92
Aroclor-1016 {5}	5.01	5.01	5.01	5.01	5.02	5.01	4.94	5.08
Aroclor-1221			2.16				2.09	2.23
Aroclor-1221 {2}			3.07				3.00	3.14
Aroclor-1221 {3}			3.28				3.21	3.35
Aroclor-1221 {4}			3.37				3.30	3.44
Aroclor-1221 {5}			4.65				4.58	4.72
Aroclor-1232			3.36				3.29	3.43
Aroclor-1232 {2}			4.29				4.22	4.36
Aroclor-1232 {3}			4.84				4.77	4.91
Aroclor-1232 {4}			5.01				4.94	5.08
Aroclor-1232 {5}			5.59				5.52	5.66
Aroclor-1242			4.29				4.22	4.36
Aroclor-1242 {2}			5.01				4.94	5.08
Aroclor-1242 {3}			5.60				5.53	5.67
Aroclor-1242 {4}			5.75				5.68	5.82
Aroclor-1242 {5}			6.29				6.22	6.36
Aroclor-1248			4.64				4.56	4.72
Aroclor-1248 {2}			5.21				5.13	5.29
Aroclor-1248 {3}			5.59				5.51	5.67
Aroclor-1248 {4}			5.75				5.67	5.83
Aroclor-1248 {5}			6.09				6.01	6.17
Aroclor-1254			6.58				6.50	6.66
Aroclor-1254 {2}			7.15				7.07	7.23
Aroclor-1254 {3}			7.58				7.49	7.67
Aroclor-1254 {4}			7.77				7.68	7.86
Aroclor-1254 {5}			8.58				8.49	8.67
Aroclor-1260	7.34	7.33	7.33	7.33	7.34	7.34	6.44	8.24
Aroclor-1260 {2}	7.58	7.58	7.59	7.59	7.59	7.59	6.69	8.49
Aroclor-1260 {3}	9.17	9.17	9.17	9.17	9.17	9.17	8.27	10.07
Aroclor-1260 {4}	9.68	9.68	9.68	9.68	9.68	9.68	8.78	10.58
Aroclor-1260 {5}	10.27	10.27	10.27	10.27	10.27	10.27	9.37	11.17

AROCLOL INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013 Instrument ID: GC-R
 GC Column (2nd): DB-1701P

Data File: R5406.C R5405.C R5404.C R5403.C R5402.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	458311	460630	416614	400325	378539	422884	8.52
Aroclor-1016 {2}	1034186	983316	854289	823661	777298	894550	12.22
Aroclor-1016 {3}	2070883	2027148	1846278	1813463	1743179	1900190	7.46
Aroclor-1016 {4}	875093	844939	780394	749139	728194	795552	7.87
Aroclor-1016 {5}	669763	645248	597675	581408	564504	611720	7.24
Aroclor-1221			212048				
Aroclor-1221 {2}			337253				
Aroclor-1221 {3}			206598				
Aroclor-1221 {4}			754595				
Aroclor-1221 {5}			139067				
Aroclor-1232			558305				
Aroclor-1232 {2}			214379				
Aroclor-1232 {3}			449439				
Aroclor-1232 {4}			346191				
Aroclor-1232 {5}			490383				
Aroclor-1242			322149				
Aroclor-1242 {2}			524799				
Aroclor-1242 {3}			698289				
Aroclor-1242 {4}			576589				
Aroclor-1242 {5}			1096145				
Aroclor-1248			1224010				
Aroclor-1248 {2}			1866655				
Aroclor-1248 {3}			1322324				
Aroclor-1248 {4}			1188759				
Aroclor-1248 {5}			633775				
Aroclor-1254			1416771				
Aroclor-1254 {2}			1114656				
Aroclor-1254 {3}			835746				
Aroclor-1254 {4}			1016291				
Aroclor-1254 {5}			1484111				
Aroclor-1260	814856	791655	777302	766870	638238	757784	9.13
Aroclor-1260 {2}	1208926	1162133	1015530	982249	934022	1060572	11.21
Aroclor-1260 {3}	887622	881615	814484	806877	799338	837987	5.13
Aroclor-1260 {4}	1867398	1962576	1809886	1806877	1784259	1846199	3.90
Aroclor-1260 {5}	1393024	1390244	1294429	1280361	1287553	1329122	4.31
Average %RSD							7.70

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R5406.D R5405.D R5404.D R5403.D R5402.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.66				8.54	8.78
Aroclor-1262 {2}			9.45				9.33	9.57
Aroclor-1262 {3}			10.08				9.96	10.20
Aroclor-1262 {4}			10.17				10.05	10.29
Aroclor-1262 {5}			11.00				10.88	11.12
Aroclor-1268			10.08				9.96	10.20
Aroclor-1268 {2}			10.16				10.04	10.28
Aroclor-1268 {3}			10.63				10.51	10.75
Aroclor-1268 {4}			10.76				10.64	10.88
Aroclor-1268 {5}			11.60				11.48	11.72

GC Column (2nd): DB-1701P

Data File: R5406.C R5405.C R5404.C R5403.C R5402.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.17				9.05	9.29
Aroclor-1262 {2}			9.68				9.56	9.80
Aroclor-1262 {3}			10.17				10.05	10.29
Aroclor-1262 {4}			10.26				10.14	10.38
Aroclor-1262 {5}			10.85				10.73	10.97
Aroclor-1268			10.17				10.05	10.29
Aroclor-1268 {2}			10.25				10.13	10.37
Aroclor-1268 {3}			10.49				10.37	10.61
Aroclor-1268 {4}			10.64				10.52	10.76
Aroclor-1268 {5}			11.72				11.60	11.84

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/15/2013

Instrument ID: GC-R
GC Column (1st): DB-5

Data File: R5406.D R5405.D R5404.D R5403.D R5402.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			375092				
Aroclor-1262 {2}			1372820				
Aroclor-1262 {3}			509572				
Aroclor-1262 {4}			633134				
Aroclor-1262 {5}			474740				
Aroclor-1268			1301015				
Aroclor-1268 {2}			1488781				
Aroclor-1268 {3}			1131524				
Aroclor-1268 {4}			319375				
Aroclor-1268 {5}			3566996				

GC Column (2nd): DB-1701P

Data File: R5406.C R5405.C R5404.C R5403.C R5402.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1244890				
Aroclor-1262 {2}			2848395				
Aroclor-1262 {3}			887890				
Aroclor-1262 {4}			2004736				
Aroclor-1262 {5}			370824				
Aroclor-1268			2570716				
Aroclor-1268 {2}			2915321				
Aroclor-1268 {3}			2249766				
Aroclor-1268 {4}			636367				
Aroclor-1268 {5}			6939711				

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y3112.D Y3111.D Y3110.D Y3109.D Y3108.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.22	3.23	3.22	3.23	3.23	3.23	3.16	3.30
Aroclor-1016 {2}	4.05	4.05	4.05	4.05	4.05	4.05	3.98	4.12
Aroclor-1016 {3}	4.60	4.60	4.60	4.60	4.60	4.60	4.53	4.67
Aroclor-1016 {4}	5.10	5.10	5.10	5.10	5.10	5.10	5.03	5.17
Aroclor-1016 {5}	5.50	5.50	5.49	5.49	5.49	5.49	5.42	5.56
Aroclor-1221			2.14				2.07	2.21
Aroclor-1221 {2}			3.03				2.96	3.10
Aroclor-1221 {3}			3.15				3.08	3.22
Aroclor-1221 {4}			3.23				3.16	3.30
Aroclor-1221 {5}			3.82				3.75	3.89
Aroclor-1232			3.23				3.16	3.30
Aroclor-1232 {2}			4.05				3.98	4.12
Aroclor-1232 {3}			4.71				4.64	4.78
Aroclor-1232 {4}			5.30				5.23	5.37
Aroclor-1232 {5}			5.49				5.42	5.56
Aroclor-1242			4.05				3.98	4.12
Aroclor-1242 {2}			4.98				4.91	5.05
Aroclor-1242 {3}			5.30				5.23	5.37
Aroclor-1242 {4}			6.00				5.93	6.07
Aroclor-1242 {5}			6.27				6.20	6.34
Aroclor-1248			4.45				4.37	4.53
Aroclor-1248 {2}			4.98				4.90	5.06
Aroclor-1248 {3}			5.30				5.22	5.38
Aroclor-1248 {4}			6.00				5.92	6.08
Aroclor-1248 {5}			6.27				6.19	6.35
Aroclor-1254			6.39				6.31	6.47
Aroclor-1254 {2}			6.82				6.74	6.90
Aroclor-1254 {3}			6.99				6.90	7.08
Aroclor-1254 {4}			7.43				7.34	7.52
Aroclor-1254 {5}			8.27				8.18	8.36
Aroclor-1260	8.27	8.27	8.27	8.27	8.27	8.27	7.37	9.17
Aroclor-1260 {2}	8.94	8.94	8.94	8.94	8.94	8.94	8.04	9.84
Aroclor-1260 {3}	9.41	9.41	9.41	9.41	9.41	9.41	8.51	10.31
Aroclor-1260 {4}	9.89	9.89	9.89	9.89	9.89	9.89	8.99	10.79
Aroclor-1260 {5}	10.95	10.95	10.95	10.95	10.95	10.95	10.05	11.85

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013 Instrument ID: GC-Y
 GC Column (1st): DB-5

Data File: Y3112.D Y3111.D Y3110.D Y3109.D Y3108.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	381993	405255	331321	332399	322462	354686	10.34
Aroclor-1016 {2}	597044	576339	449929	455007	443641	504392	14.99
Aroclor-1016 {3}	779042	737558	574505	581516	568072	648138	15.70
Aroclor-1016 {4}	386225	387113	291563	290047	280172	327024	16.70
Aroclor-1016 {5}	612649	607629	479999	485156	475797	532246	13.38
Aroclor-1221			196817				
Aroclor-1221 {2}			306095				
Aroclor-1221 {3}			197030				
Aroclor-1221 {4}			658703				
Aroclor-1221 {5}			158761				
Aroclor-1232			491067				
Aroclor-1232 {2}			302367				
Aroclor-1232 {3}			265204				
Aroclor-1232 {4}			297882				
Aroclor-1232 {5}			376155				
Aroclor-1242			447563				
Aroclor-1242 {2}			293232				
Aroclor-1242 {3}			406125				
Aroclor-1242 {4}			598272				
Aroclor-1242 {5}			521091				
Aroclor-1248			1042028				
Aroclor-1248 {2}			614053				
Aroclor-1248 {3}			792948				
Aroclor-1248 {4}			1251799				
Aroclor-1248 {5}			969090				
Aroclor-1254			1248236				
Aroclor-1254 {2}			821943				
Aroclor-1254 {3}			1505148				
Aroclor-1254 {4}			1645156				
Aroclor-1254 {5}			1505748				
Aroclor-1260	1912490	1764001	1433890	1466047	1443949	1604075	13.74
Aroclor-1260 {2}	930520	900281	698944	703442	683608	783359	15.48
Aroclor-1260 {3}	2226532	2121606	1758234	1798763	1765997	1934226	11.51
Aroclor-1260 {4}	1237666	1154444	955432	974958	942565	1053013	12.76
Aroclor-1260 {5}	521300	509963	521371	468229	448417	493856	6.78
Average %RSD						13.14	

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (2nd): DB-1701P

Data File: Y3112.C Y3111.C Y3110.C Y3109.C Y3108.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1016	3.75	3.75	3.75	3.75	3.75	3.75	3.68	3.82
Aroclor-1016 {2}	4.34	4.35	4.35	4.35	4.35	4.35	4.28	4.42
Aroclor-1016 {3}	5.09	5.09	5.10	5.09	5.09	5.10	5.03	5.17
Aroclor-1016 {4}	5.30	5.30	5.31	5.30	5.30	5.30	5.23	5.37
Aroclor-1016 {5}	5.48	5.48	5.48	5.48	5.48	5.48	5.41	5.55
Aroclor-1221			2.43				2.36	2.50
Aroclor-1221 {2}			3.43				3.36	3.50
Aroclor-1221 {3}			3.66				3.59	3.73
Aroclor-1221 {4}			3.75				3.68	3.82
Aroclor-1221 {5}			5.09				5.02	5.16
Aroclor-1232			3.75				3.68	3.82
Aroclor-1232 {2}			4.73				4.66	4.80
Aroclor-1232 {3}			5.30				5.23	5.37
Aroclor-1232 {4}			5.47				5.40	5.54
Aroclor-1232 {5}			6.07				6.00	6.14
Aroclor-1242			4.73				4.66	4.80
Aroclor-1242 {2}			5.48				5.41	5.55
Aroclor-1242 {3}			6.07				6.00	6.14
Aroclor-1242 {4}			6.23				6.16	6.30
Aroclor-1242 {5}			6.77				6.70	6.84
Aroclor-1248			5.09				5.01	5.17
Aroclor-1248 {2}			5.68				5.60	5.76
Aroclor-1248 {3}			6.07				5.99	6.15
Aroclor-1248 {4}			6.23				6.15	6.31
Aroclor-1248 {5}			6.57				6.49	6.65
Aroclor-1254			7.07				6.99	7.15
Aroclor-1254 {2}			7.65				7.57	7.73
Aroclor-1254 {3}			8.26				8.17	8.35
Aroclor-1254 {4}			8.49				8.40	8.58
Aroclor-1254 {5}			9.08				8.99	9.17
Aroclor-1260	7.83	7.83	7.83	7.83	7.83	7.83	6.93	8.73
Aroclor-1260 {2}	8.08	8.09	8.09	8.09	8.09	8.09	7.19	8.99
Aroclor-1260 {3}	9.67	9.67	9.67	9.67	9.67	9.67	8.77	10.57
Aroclor-1260 {4}	10.18	10.18	10.18	10.18	10.18	10.18	9.28	11.08
Aroclor-1260 {5}	10.76	10.77	10.77	10.76	10.76	10.76	9.86	11.66

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (2nd): DB-1701P

Data File: Y3112.C Y3111.C Y3110.C Y3109.C Y3108.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1016	860655	813577	654633	632126	593235	710845	16.67
Aroclor-1016 {2}	1644649	1627507	1473570	1217303	1138097	1420225	16.40
Aroclor-1016 {3}	4038356	3818311	3268753	3184546	3016267	3465247	12.68
Aroclor-1016 {4}	1767077	1694291	1444570	1432266	1365836	1540808	11.54
Aroclor-1016 {5}	1314650	1281908	1126879	1129198	1087058	1187939	8.65
Aroclor-1221			361918				
Aroclor-1221 {2}			556567				
Aroclor-1221 {3}			373401				
Aroclor-1221 {4}			1311496				
Aroclor-1221 {5}			290062				
Aroclor-1232			988844				
Aroclor-1232 {2}			387514				
Aroclor-1232 {3}			953594				
Aroclor-1232 {4}			747855				
Aroclor-1232 {5}			1033723				
Aroclor-1242			575426				
Aroclor-1242 {2}			1115177				
Aroclor-1242 {3}			1465418				
Aroclor-1242 {4}			1240354				
Aroclor-1242 {5}			2415057				
Aroclor-1248			2462116				
Aroclor-1248 {2}			3669721				
Aroclor-1248 {3}			2614777				
Aroclor-1248 {4}			2270134				
Aroclor-1248 {5}			1343297				
Aroclor-1254			3208782				
Aroclor-1254 {2}			2587156				
Aroclor-1254 {3}			2606959				
Aroclor-1254 {4}			1514854				
Aroclor-1254 {5}			3788493				
Aroclor-1260	1642788	1563638	1354897	1354734	1285946	1440400	10.68
Aroclor-1260 {2}	2471106	2310926	1969748	1950863	1832873	2107103	12.83
Aroclor-1260 {3}	2073757	2088673	1866029	1870201	1764721	1932676	7.35
Aroclor-1260 {4}	4560896	4747637	4338376	4372429	4260007	4455869	4.42
Aroclor-1260 {5}	3126583	3677020	3172866	3206926	3119370	3260553	7.22
Average %RSD						10.85	

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013

Instrument ID: GC-Y
GC Column (1st): DB-5

Data File: Y3112.D Y3111.D Y3110.D Y3109.D Y3108.D

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			8.56				8.44	8.68
Aroclor-1262 {2}			9.41				9.29	9.53
Aroclor-1262 {3}			10.04				9.92	10.16
Aroclor-1262 {4}			10.13				10.01	10.25
Aroclor-1262 {5}			10.95				10.83	11.07
Aroclor-1268			10.04				9.92	10.16
Aroclor-1268 {2}			10.13				10.01	10.25
Aroclor-1268 {3}			10.59				10.47	10.71
Aroclor-1268 {4}			11.55				11.43	11.67
Aroclor-1268 {5}			12.04				11.92	12.16

GC Column (2nd): DB-1701P

Data File: Y3112.C Y3111.C Y3110.C Y3109.C Y3108.C

Compound	RT OF STANDARDS					MEAN RT	RT WINDOW	
	10	50	500	1000	2000		FROM	TO
Aroclor-1262			9.76				9.64	9.88
Aroclor-1262 {2}			10.18				10.06	10.30
Aroclor-1262 {3}			10.76				10.64	10.88
Aroclor-1262 {4}			10.76				10.64	10.88
Aroclor-1262 {5}			11.36				11.24	11.48
Aroclor-1268			10.67				10.55	10.79
Aroclor-1268 {2}			10.75				10.63	10.87
Aroclor-1268 {3}			11.01				10.89	11.13
Aroclor-1268 {4}			12.22				12.10	12.34
Aroclor-1268 {5}			12.45				12.33	12.57

AROCLOR INITIAL CALIBRATION SUMMARY

Date Analyzed: 11/20/2013 Instrument ID: GC-Y
 GC Column (1st): DB-5

Data File: Y3112.D Y3111.D Y3110.D Y3109.D Y3108.D

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1433565				
Aroclor-1262 {2}			2833448				
Aroclor-1262 {3}			1118465				
Aroclor-1262 {4}			1277177				
Aroclor-1262 {5}			1094682				
Aroclor-1268			2722859				
Aroclor-1268 {2}			2944095				
Aroclor-1268 {3}			2384133				
Aroclor-1268 {4}			7164207				
Aroclor-1268 {5}			4098749				

GC Column (2nd): DB-1701P

Data File: Y3112.C Y3111.C Y3110.C Y3109.C Y3108.C

Compound	CALIBRATION FACTORS					MEAN	%RSD
	10	50	500	1000	2000		
Aroclor-1262			1414958				
Aroclor-1262 {2}			7470096				
Aroclor-1262 {3}			5440071				
Aroclor-1262 {4}			5440071				
Aroclor-1262 {5}			1151667				
Aroclor-1268			7568857				
Aroclor-1268 {2}			7967148				
Aroclor-1268 {3}			6653841				
Aroclor-1268 {4}			19401131				
Aroclor-1268 {5}			11263170				

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/10/2013

Instrument ID: GC-R

Data File: R5786.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	212464	178755	15.87
Aroclor-1016 {2}	4.03	3.96	4.10	290090	238932	17.64
Aroclor-1016 {3}	4.59	4.52	4.66	368655	310145	15.87
Aroclor-1016 {4}	5.09	5.02	5.16	184173	160882	12.65
Aroclor-1016 {5}	5.49	5.42	5.56	289810	242018	16.49
Aroclor-1260	8.30	7.39	9.19	752046	687875	8.53
Aroclor-1260 {2}	8.97	8.07	9.87	347008	321806	7.26
Aroclor-1260 {3}	9.46	8.55	10.35	893679	855352	4.29
Aroclor-1260 {4}	9.94	9.04	10.84	437017	424977	2.75
Aroclor-1260 {5}	11.01	10.10	11.90	207779	210277	1.20

Data File: R5786.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.37	3.30	3.44	422884	473208	11.90
Aroclor-1016 {2}	3.94	3.86	4.00	894550	909118	1.63
Aroclor-1016 {3}	4.66	4.58	4.72	1900190	1988873	4.67
Aroclor-1016 {4}	4.86	4.78	4.92	795552	838884	5.45
Aroclor-1016 {5}	5.02	4.94	5.08	611720	655172	7.10
Aroclor-1260	7.35	6.44	8.24	757784	842217	11.14
Aroclor-1260 {2}	7.60	6.69	8.49	1060572	1125738	6.14
Aroclor-1260 {3}	9.18	8.27	10.07	837987	951399	13.53
Aroclor-1260 {4}	9.69	8.78	10.58	1846199	2210276	19.72
Aroclor-1260 {5}	10.27	9.37	11.17	1329122	1585584	19.30

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/10/2013

Instrument ID: GC-R

Data File: R5803.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	212464	178148	16.15
Aroclor-1016 {2}	4.03	3.96	4.10	290090	236744	18.39
Aroclor-1016 {3}	4.59	4.52	4.66	368655	306656	16.82
Aroclor-1016 {4}	5.10	5.02	5.16	184173	160545	12.83
Aroclor-1016 {5}	5.49	5.42	5.56	289810	238164	17.82
Aroclor-1260	8.31	7.39	9.19	752046	649045	13.70
Aroclor-1260 {2}	8.97	8.07	9.87	347008	295504	14.84
Aroclor-1260 {3}	9.46	8.55	10.35	893679	807241	9.67
Aroclor-1260 {4}	9.95	9.04	10.84	437017	401962	8.02
Aroclor-1260 {5}	11.01	10.10	11.90	207779	197677	4.86

Data File: R5803.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.36	3.30	3.44	422884	448553	6.07
Aroclor-1016 {2}	3.93	3.86	4.00	894550	863461	3.48
Aroclor-1016 {3}	4.65	4.58	4.72	1900190	1883322	0.89
Aroclor-1016 {4}	4.85	4.78	4.92	795552	795298	0.03
Aroclor-1016 {5}	5.01	4.94	5.08	611720	619576	1.28
Aroclor-1260	7.34	6.44	8.24	757784	773865	2.12
Aroclor-1260 {2}	7.59	6.69	8.49	1060572	1061475	0.09
Aroclor-1260 {3}	9.17	8.27	10.07	837987	862909	2.97
Aroclor-1260 {4}	9.68	8.78	10.58	1846199	2063108	11.75
Aroclor-1260 {5}	10.27	9.37	11.17	1329122	1503134	13.09

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/11/2013

Instrument ID: GC-R

Data File: R5812.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.20	3.13	3.27	212464	178375	16.04
Aroclor-1016 {2}	4.03	3.96	4.10	290090	237397	18.16
Aroclor-1016 {3}	4.59	4.52	4.66	368655	309445	16.06
Aroclor-1016 {4}	5.09	5.02	5.16	184173	165860	9.94
Aroclor-1016 {5}	5.49	5.42	5.56	289810	242182	16.43
Aroclor-1260	8.30	7.39	9.19	752046	677427	9.92
Aroclor-1260 {2}	8.97	8.07	9.87	347008	306897	11.56
Aroclor-1260 {3}	9.46	8.55	10.35	893679	833122	6.78
Aroclor-1260 {4}	9.95	9.04	10.84	437017	414666	5.11
Aroclor-1260 {5}	11.01	10.10	11.90	207779	206640	0.55

Data File: R5812.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.36	3.30	3.44	422884	439263	3.87
Aroclor-1016 {2}	3.92	3.86	4.00	894550	848192	5.18
Aroclor-1016 {3}	4.65	4.58	4.72	1900190	1860744	2.08
Aroclor-1016 {4}	4.85	4.78	4.92	795552	780047	1.95
Aroclor-1016 {5}	5.01	4.94	5.08	611720	604230	1.22
Aroclor-1260	7.34	6.44	8.24	757784	778345	2.71
Aroclor-1260 {2}	7.59	6.69	8.49	1060572	1050267	0.97
Aroclor-1260 {3}	9.17	8.27	10.07	837987	864472	3.16
Aroclor-1260 {4}	9.68	8.78	10.58	1846199	2036998	10.33
Aroclor-1260 {5}	10.27	9.37	11.17	1329122	1475004	10.98

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/11/2013

Instrument ID: GC-Y

Data File: Y3442.D

GC Column (1st): DB-5

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.23	3.16	3.30	354686	393449	10.93
Aroclor-1016 {2}	4.05	3.98	4.12	504392	535686	6.20
Aroclor-1016 {3}	4.60	4.53	4.67	648138	685494	5.76
Aroclor-1016 {4}	5.10	5.03	5.17	327024	340110	4.00
Aroclor-1016 {5}	5.50	5.42	5.56	532246	557227	4.69
Aroclor-1260	8.27	7.37	9.17	1604075	1532024	4.49
Aroclor-1260 {2}	8.94	8.04	9.84	783359	700930	10.52
Aroclor-1260 {3}	9.42	8.51	10.31	1934226	1740491	10.02
Aroclor-1260 {4}	9.90	8.99	10.79	1053013	917136	12.90
Aroclor-1260 {5}	10.96	10.05	11.85	493856	432946	12.33

Data File: Y3442.C

GC Column (2nd): DB-1701P

Compound	RT	RT WINDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.75	3.68	3.82	710845	833044	17.19
Aroclor-1016 {2}	4.35	4.28	4.42	1420225	1609585	13.33
Aroclor-1016 {3}	5.09	5.03	5.17	3465247	4079831	17.74
Aroclor-1016 {4}	5.30	5.23	5.37	1540808	1799247	16.77
Aroclor-1016 {5}	5.48	5.41	5.55	1187939	1407871	18.51
Aroclor-1260	7.83	6.93	8.73	1440400	1502417	4.31
Aroclor-1260 {2}	8.09	7.19	8.99	2107103	2109524	0.11
Aroclor-1260 {3}	9.67	8.77	10.57	1932676	1746078	9.65
Aroclor-1260 {4}	10.18	9.28	11.08	4455869	4003236	10.16
Aroclor-1260 {5}	10.77	9.86	11.66	3260553	2847488	12.67

AROCLOR CALIBRATION VERIFICATION SUMMARY

Date/Time Analyzed: 12/11/2013

Instrument ID: GC-Y

Data File: Y3452.D

GC Column (1st): DB-5

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.22	3.16	3.30	354686	407455	14.88
Aroclor-1016 {2}	4.05	3.98	4.12	504392	558658	10.76
Aroclor-1016 {3}	4.60	4.53	4.67	648138	710854	9.68
Aroclor-1016 {4}	5.10	5.03	5.17	327024	359082	9.80
Aroclor-1016 {5}	5.50	5.42	5.56	532246	586611	10.21
Aroclor-1260	8.27	7.37	9.17	1604075	1672532	4.27
Aroclor-1260 {2}	8.94	8.04	9.84	783359	772084	1.44
Aroclor-1260 {3}	9.42	8.51	10.31	1934226	1935468	0.06
Aroclor-1260 {4}	9.90	8.99	10.79	1053013	1021334	3.01
Aroclor-1260 {5}	10.96	10.05	11.85	493856	440801	10.74

Data File: Y3452.C

GC Column (2nd): DB-1701P

Compound	RT	RT WI NDOW		Avg CF	CC CF	%D
		FROM	TO			
Aroclor-1016	3.75	3.68	3.82	710845	845789	18.98
Aroclor-1016 {2}	4.35	4.28	4.42	1420225	1677887	18.14
Aroclor-1016 {3}	5.09	5.03	5.17	3465247	3769224	8.77
Aroclor-1016 {4}	5.30	5.23	5.37	1540808	1677578	8.88
Aroclor-1016 {5}	5.48	5.41	5.55	1187939	1416366	19.23
Aroclor-1260	7.83	6.93	8.73	1440400	1681753	16.76
Aroclor-1260 {2}	8.09	7.19	8.99	2107103	2391686	13.51
Aroclor-1260 {3}	9.67	8.77	10.57	1932676	2028578	4.96
Aroclor-1260 {4}	10.18	9.28	11.08	4455869	4666167	4.72
Aroclor-1260 {5}	10.77	9.86	11.66	3260553	3325449	1.99

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-R

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.74</u>	DCB 1	<u>12.09</u>	TCMX 2	<u>2.56</u>	DCB 2	<u>11.94</u>
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Client ID	Sample ID	Lab	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKS131210-02		12/10/2013	16:01	2.74	12.09	2.56	11.94
PCB	LCSS131210-02		12/10/2013	16:19	2.74	12.09	2.56	11.94
II-45_(0	E13-11911-001		12/10/2013	16:36	2.74	12.08	2.56	11.93
II-45_(1	E13-11911-002		12/10/2013	16:54	2.74	12.08	2.56	11.93
II-45_(2	E13-11911-003		12/10/2013	17:11	2.74	12.08	2.56	11.93
II-44_(0	E13-11911-004		12/10/2013	17:28	2.74	12.08	2.56	11.93
II-44_(1	E13-11911-005		12/10/2013	17:46	2.74	12.09	2.56	11.93
II-44_(2	E13-11911-006		12/10/2013	18:03	2.74	12.08	2.56	11.93
HH-35_(5	E13-11911-007		12/10/2013	18:21	2.74	12.09	2.56	11.93
HH-35_(6	E13-11911-008		12/10/2013	18:38	2.74	12.09	2.56	11.94
JJ-43_(0	E13-11911-009		12/10/2013	18:56	2.74	12.09	2.56	11.93
JJ-43_(1	E13-11911-010		12/10/2013	19:13	2.74	12.08	2.56	11.93
JJ-43_(2	E13-11911-011		12/10/2013	19:30	2.74	12.09	2.56	11.93
JJ-44_(0	E13-11911-012		12/10/2013	19:48	2.74	12.08	2.56	11.93
JJ-44_(1	E13-11911-013		12/10/2013	20:05	2.74	12.08	2.56	11.93
JJ-44_(2	E13-11911-014		12/10/2013	20:23	2.74	12.08	2.56	11.93
BB-49(0-	E13-11967-001		12/10/2013	21:50	2.74	12.08	2.56	11.93
BB-49(1.	E13-11967-002		12/10/2013	22:07	2.74	12.09	2.56	11.93
CC-49(0-	E13-11967-003		12/10/2013	22:25	2.74	12.08	2.56	11.93
CC-49(1.	E13-11967-004		12/10/2013	22:42	2.74	12.08	2.56	11.93
WC-2/0-1	E13-12081-002		12/10/2013	22:59	2.76	12.08	2.58	11.93
WASTE_CL	E13-12167-001		12/10/2013	23:17	2.74	12.09	2.56	11.93
PCB	12167-001MS		12/10/2013	23:34	2.74	12.09	2.56	11.93
PCB	12167-001MSD		12/10/2013	23:52	2.74	12.09	2.56	11.93

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(\pm 0.10 Minutes)

DCB = Decachlorobiphenyl

(\pm 0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB RETENTION TIME SHIFT SUMMARY

Instrument ID: GC-Y

Column: DB-5/DB-1701P

Surrogate RT from initial calibration :

TCMX 1	<u>2.77</u>	DCB 1	<u>12.05</u>	TCMX 2	<u>2.88</u>	DCB 2	<u>12.45</u>
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Client ID	Sample ID	Lab	Date Analyzed	Time Analyzed	TCMX 1 RT #	DCB 1 RT #	TCMX 2 RT #	DCB 2 RT #
PCB	BLKA131209-25		12/11/2013	20:14	2.77	12.05	2.88	12.45
PCB	LCSA131209-25		12/11/2013	20:32	2.77	12.05	2.88	12.45
FB-40	E13-11911-015		12/11/2013	20:49	2.77	12.04	2.88	12.45
TW-1/4.6	E13-12050-004		12/11/2013	21:06	2.77	12.04	2.88	12.45
FB	E13-12164-009		12/11/2013	21:24	2.77	12.05	2.88	12.45
FB-41	E13-11967-005		12/11/2013	21:41	2.77	12.05	2.88	12.45
WEIR_STA	E13-11945-001		12/11/2013	21:58	2.77	12.05	2.88	12.45
PCB	11945-001MS		12/11/2013	22:15	2.77	12.05	2.88	12.45
PCB	11945-001MSD		12/11/2013	22:33	2.77	12.05	2.88	12.45

Surrogate QC Limits

TCMX = Tetrachloro-m-xylene

(\pm 0.10 Minutes)

DCB = Decachlorobiphenyl

(\pm 0.10 Minutes)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

M Matrix interference

PCB SAMPLE DATA

Data Path : C:\MSDCHEM\1\DATA\12-10-13\
 Data File : R5804.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 10 Dec 2013 21:50
 Operator : JS
 Sample : BB-49(0-,E13-11967-001,S,5.01g,26.0,20
 Misc : 131210-02,12/10/13,12/03/13,1
 ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Dec 11 10:18:47 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
 Quant Title :
 QLast Update : Fri Nov 15 14:15:52 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

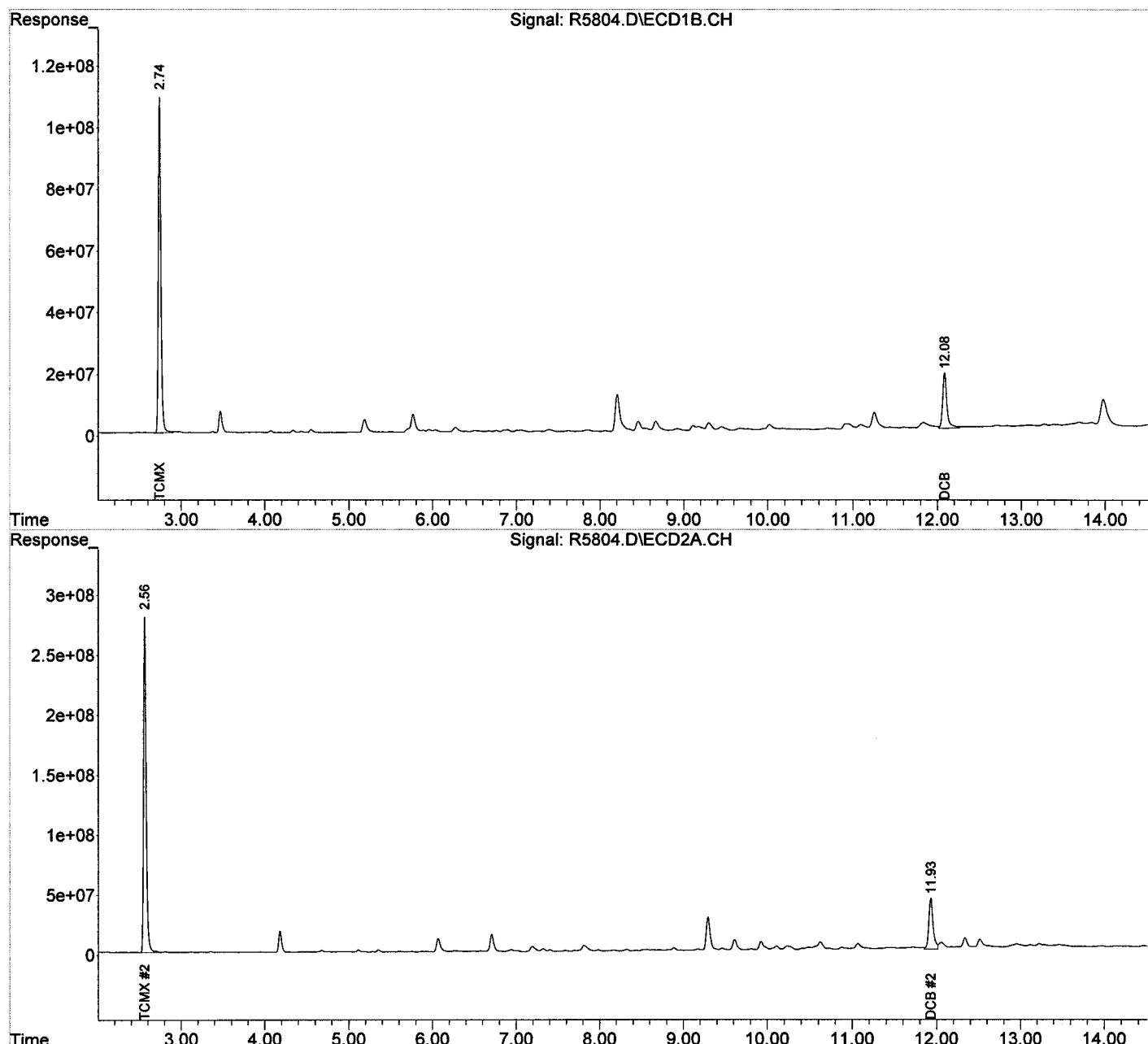
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2327.3E6	6078.8E6	201.809	254.347 #
Spiked Amount	200.000			Recovery	= 100.90%	127.17%
2) S DCB	12.08	11.93	625.9E6	1511.8E6	191.052	239.080 #
Spiked Amount	200.000			Recovery	= 95.53%	119.54%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\12-10-13\
Data File : R5804.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 10 Dec 2013 21:50
Operator : JS
Sample : BB-49(0-,E13-11967-001,S,5.01g,26.0,20
Misc : 131210-02,12/10/13,12/03/13,1
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 10:18:47 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\12-10-13\
 Data File : R5805.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 10 Dec 2013 22:07
 Operator : JS
 Sample : BB-49(1.,E13-11967-002,S,5.09g,72.4,20
 Misc : 131210-02,12/10/13,12/03/13,1
 ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Dec 11 10:19:40 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
 Quant Title :
 QLast Update : Fri Nov 15 14:15:52 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

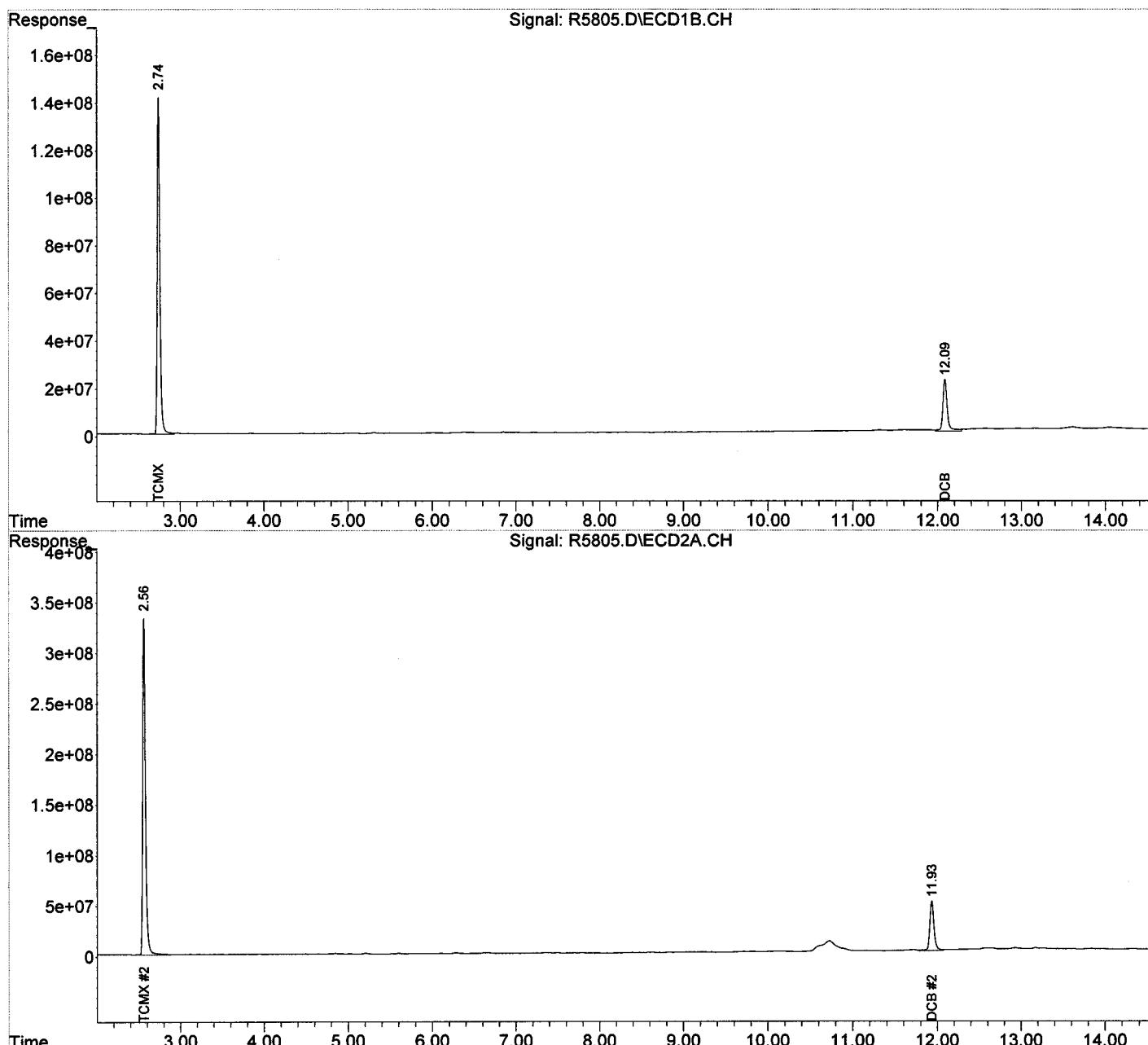
	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
1) S	TCMX	2.74	2.56	3089.1E6	7628.2E6	267.865	319.172
	Spiked Amount	200.000			Recovery	= 133.93%	159.59%
2) S	DCB	12.09	11.93	817.1E6	1713.4E6	249.402	270.958
	Spiked Amount	200.000			Recovery	= 124.70%	135.48%
<hr/>							
Target Compounds							
	Sum Aroclor-1016			0	0	N.D.	N.D.
	Average Aroclor-1016					0.000	0.000
	Sum Aroclor-1221			0	0	N.D.	N.D.
	Average Aroclor-1221					0.000	0.000
	Sum Aroclor-1232			0	0	N.D.	N.D.
	Average Aroclor-1232					0.000	0.000
	Sum Aroclor-1242			0	0	N.D.	N.D.
	Average Aroclor-1242					0.000	0.000
	Sum Aroclor-1248			0	0	N.D.	N.D.
	Average Aroclor-1248					0.000	0.000
	Sum Aroclor-1254			0	0	N.D.	N.D.
	Average Aroclor-1254					0.000	0.000
	Sum Aroclor-1260			0	0	N.D.	N.D.
	Average Aroclor-1260					0.000	0.000
	Sum Aroclor-1262			0	0	N.D.	N.D.
	Average Aroclor-1262					0.000	0.000
	Sum Aroclor-1268			0	0	N.D.	N.D.
	Average Aroclor-1268					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\12-10-13\
Data File : R5805.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 10 Dec 2013 22:07
Operator : JS
Sample : BB-49(1.,E13-11967-002,S,5.09g,72.4,20
Misc : 131210-02,12/10/13,12/03/13,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 10:19:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\12-10-13\
 Data File : R5806.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 10 Dec 2013 22:25
 Operator : JS
 Sample : CC-49(0-,E13-11967-003,S,5.22g,9.80,20
 Misc : 131210-02,12/10/13,12/03/13,1
 ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Dec 11 11:20:39 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
 Quant Title :
 QLast Update : Fri Nov 15 14:15:52 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

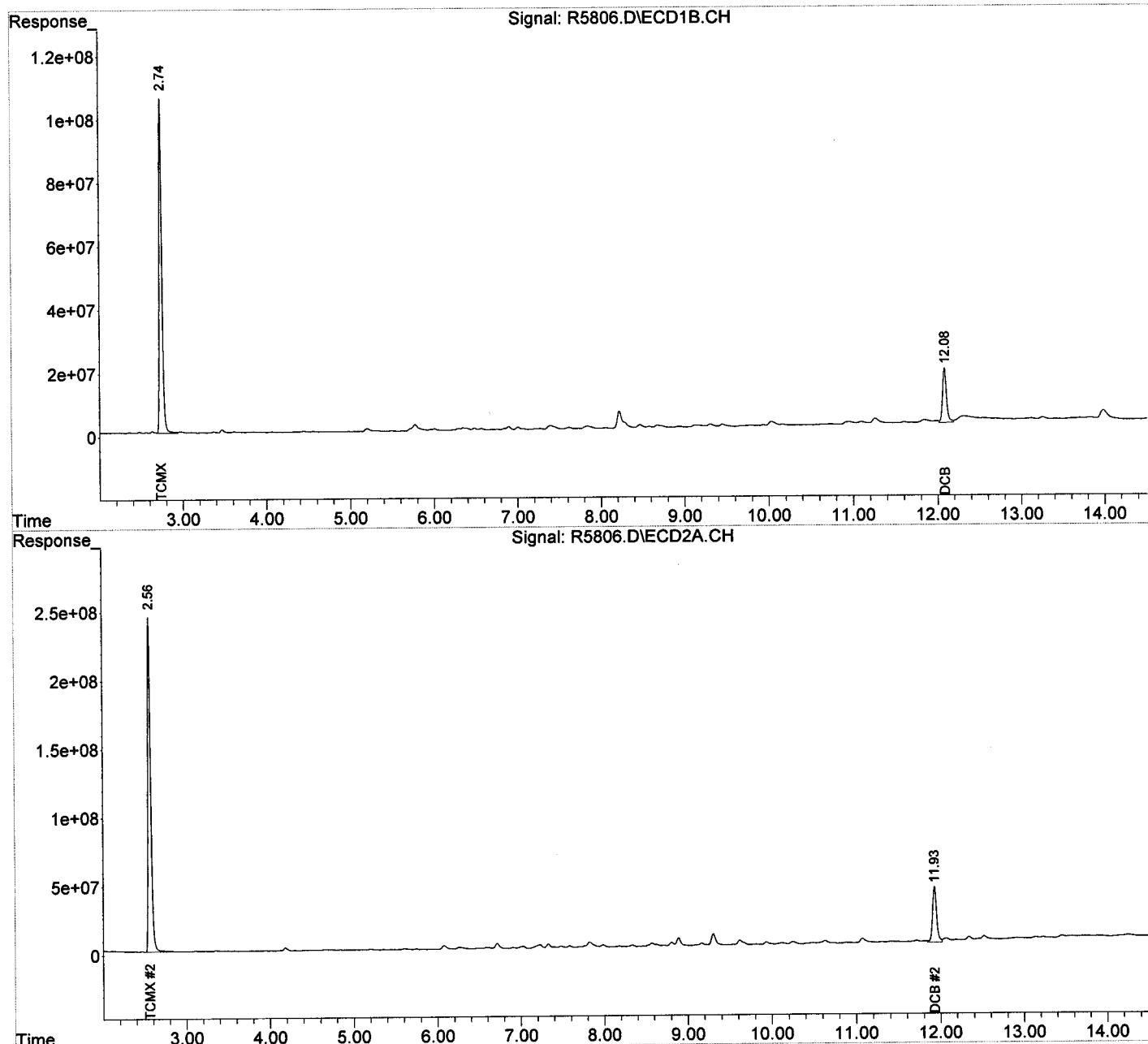
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2391.0E6	5760.2E6	207.328	241.015
Spiked Amount	200.000			Recovery	= 103.66%	120.51%
2) S DCB	12.08	11.93	565.7E6	1364.9E6	172.650	215.844 #
Spiked Amount	200.000			Recovery	= 86.33%	107.92%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\12-10-13\
Data File : R5806.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 10 Dec 2013 22:25
Operator : JS
Sample : CC-49(0-,E13-11967-003,S,5.22g,9.80,20
Misc : 131210-02,12/10/13,12/03/13,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 11:20:39 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Data Path : C:\MSDCHEM\1\DATA\12-10-13\
 Data File : R5807.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 10 Dec 2013 22:42
 Operator : JS
 Sample : CC-49(1.,E13-11967-004,S,5.10g,13.8,20
 Misc : 131210-02,12/10/13,12/03/13,1
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Dec 11 11:21:05 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
 Quant Title :
 QLast Update : Fri Nov 15 14:15:52 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

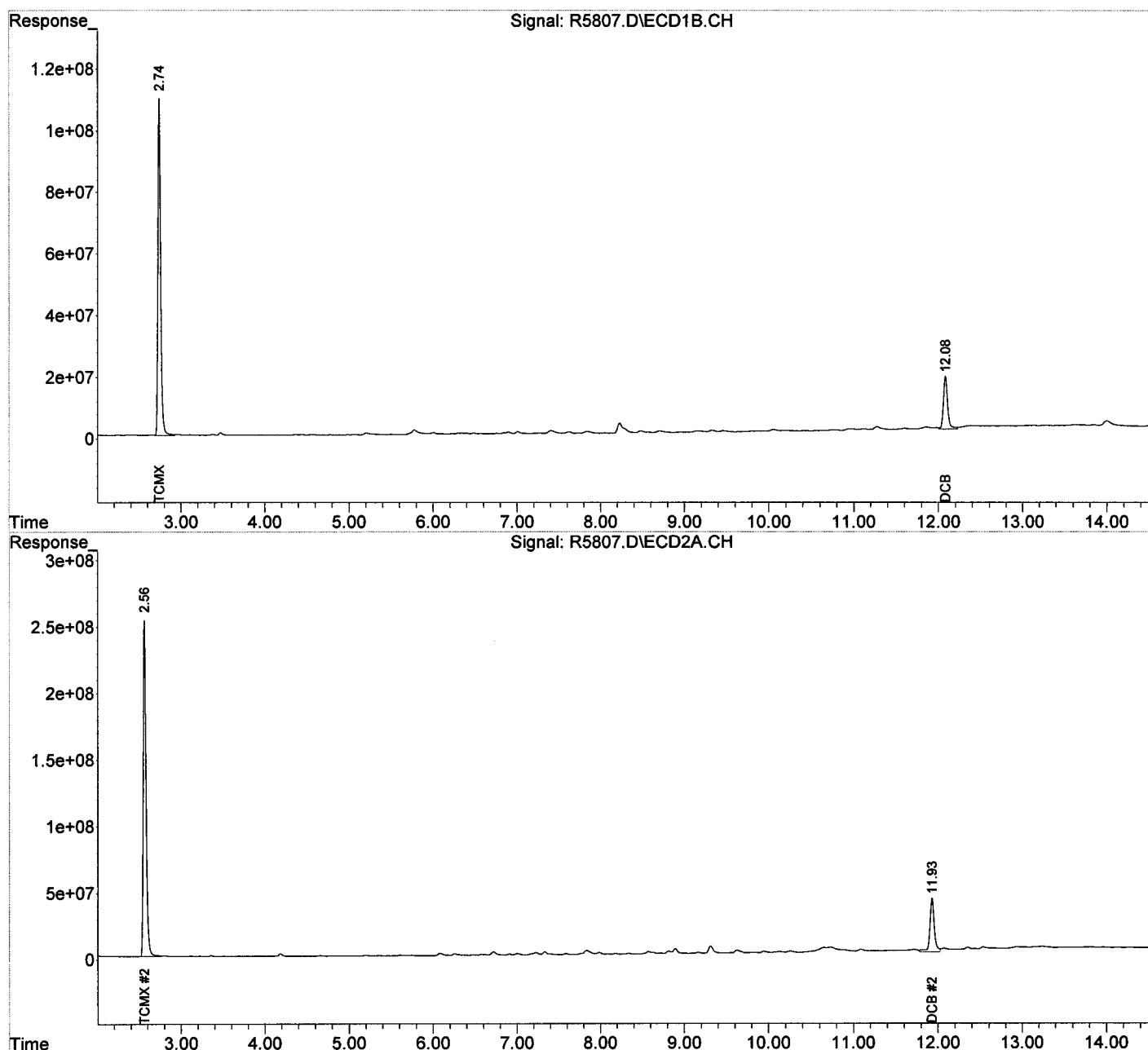
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2464.6E6	5927.6E6	213.713	248.020
Spiked Amount	200.000			Recovery	= 106.86%	124.01%
2) S DCB	12.08	11.93	580.5E6	1473.7E6	177.194	233.059 #
Spiked Amount	200.000			Recovery	= 88.60%	116.53%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\12-10-13\
Data File : R5807.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 10 Dec 2013 22:42
Operator : JS
Sample : CC-49(1.,E13-11967-004,S,5.10g,13.8,20
Misc : 131210-02,12/10/13,12/03/13,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 11:21:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
 Data File : Y3448.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 11 Dec 2013 21:41
 Operator : NG
 Sample : FB-41,E13-11967-005,A,1000ml,100,5
 Misc : 131209-25,12/09/13,12/03/13,1
 ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Dec 12 09:44:14 2013
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
 Quant Title :
 QLast Update : Fri Dec 06 11:23:54 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>							
1) S	TCMX	2.77	2.88	3510.9E6	7680.9E6	207.834	222.902
	Spiked Amount	200.000			Recovery	= 103.92%	111.45%
2) S	DCB	12.05	12.45	916.6E6	2464.9E6	134.265	144.020
	Spiked Amount	200.000			Recovery	= 67.13%	72.01%
<hr/>							
System Monitoring Compounds							
1) S	TCMX	2.77	2.88	3510.9E6	7680.9E6	207.834	222.902
	Spiked Amount	200.000			Recovery	= 103.92%	111.45%
2) S	DCB	12.05	12.45	916.6E6	2464.9E6	134.265	144.020
	Spiked Amount	200.000			Recovery	= 67.13%	72.01%
<hr/>							
Target Compounds							
	Sum Aroclor-1016			0	0	N.D.	N.D.
	Average Aroclor-1016					0.000	0.000
	Sum Aroclor-1221			0	0	N.D.	N.D.
	Average Aroclor-1221					0.000	0.000
	Sum Aroclor-1232			0	0	N.D.	N.D.
	Average Aroclor-1232					0.000	0.000
	Sum Aroclor-1242			0	0	N.D.	N.D.
	Average Aroclor-1242					0.000	0.000
	Sum Aroclor-1248			0	0	N.D.	N.D.
	Average Aroclor-1248					0.000	0.000
	Sum Aroclor-1254			0	0	N.D.	N.D.
	Average Aroclor-1254					0.000	0.000
	Sum Aroclor-1260			0	0	N.D.	N.D.
	Average Aroclor-1260					0.000	0.000
	Sum Aroclor-1262			0	0	N.D.	N.D.
	Average Aroclor-1262					0.000	0.000
	Sum Aroclor-1268			0	0	N.D.	N.D.
	Average Aroclor-1268					0.000	0.000
<hr/>							

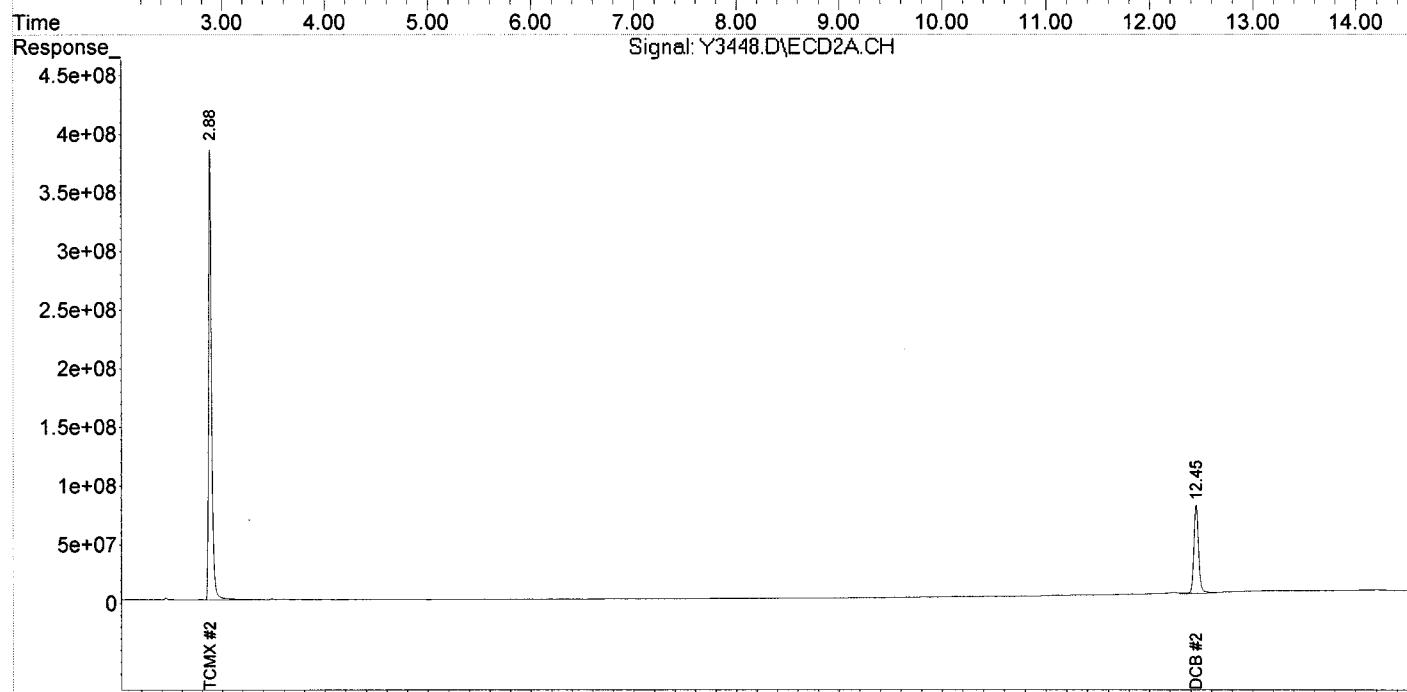
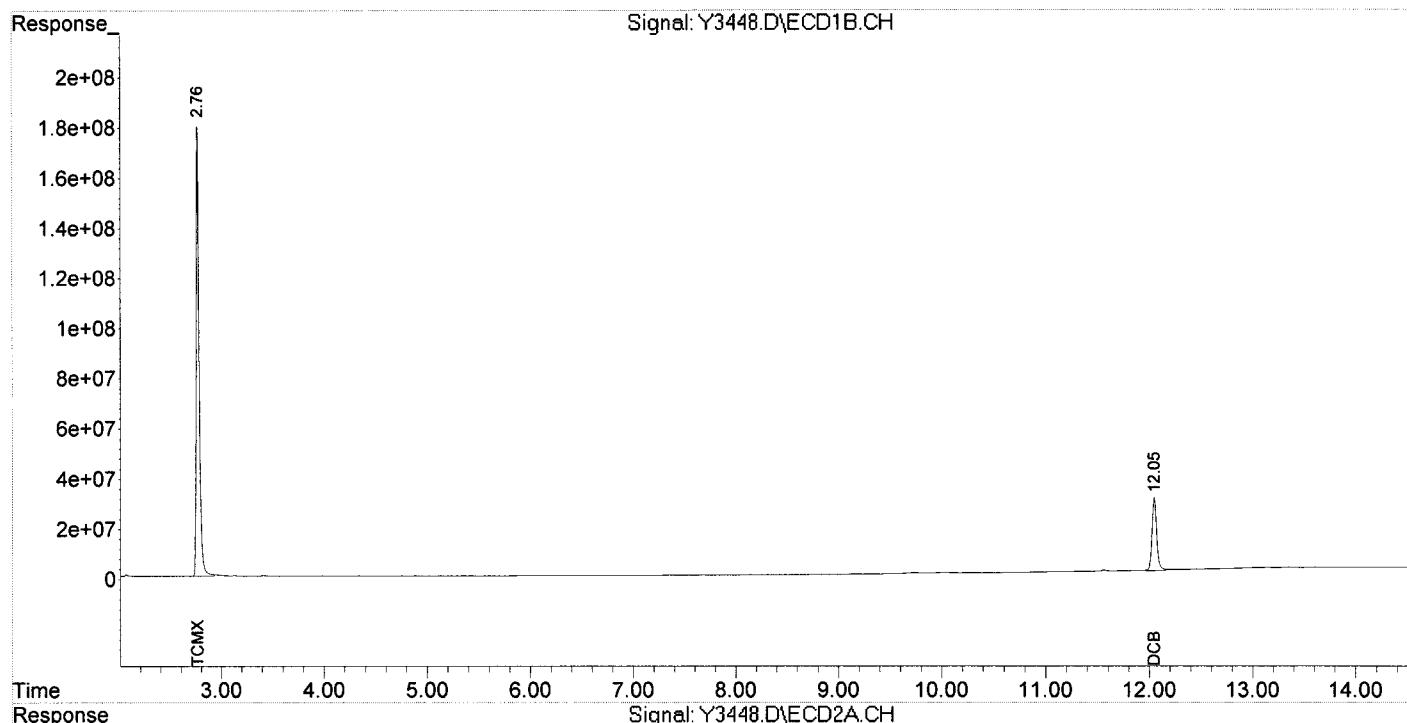
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : Y3448.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 21:41
Operator : NG
Sample : FB-41,E13-11967-005,A,1000ml,100.5
Misc : 131209-25,12/09/13,12/03/13,1
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 09:44:14 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Fri Dec 06 11:23:54 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES**PCB's**

Lab ID: BLKS131210-02

Client ID: PCB

Date Received: NA

Date Extracted: 12/10/2013

Date Analyzed: 12/10/2013

Data file: R5787.D

GC Column: DB-5/DB1701P

Sample wt/vol: 5g

Matrix-Units: Soil-mg/Kg (ppm)

Dilution Factor: 1

% Moisture: 12:00:00 AM

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.040	0.016
Aroclor-1221	ND		0.040	0.016
Aroclor-1232	ND		0.040	0.016
Aroclor-1242	ND		0.040	0.016
Aroclor-1248	ND		0.040	0.016
Aroclor-1254	ND		0.040	0.016
Aroclor-1260	ND		0.040	0.016
Aroclor-1262	ND		0.040	0.016
Aroclor-1268	ND		0.040	0.016
PCBs	ND		0.040	0.016

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

Data Path : C:\MSDCHEM\1\DATA\12-10-13\
 Data File : R5787.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 10 Dec 2013 16:01
 Operator : JS
 Sample : PCB,BLKS131210-02,S,5g,12:00:00 AM,20
 Misc : NA,12/10/13,NA,1
 ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Dec 11 10:09:57 2013
 Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
 Quant Title :
 QLast Update : Fri Nov 15 14:15:52 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

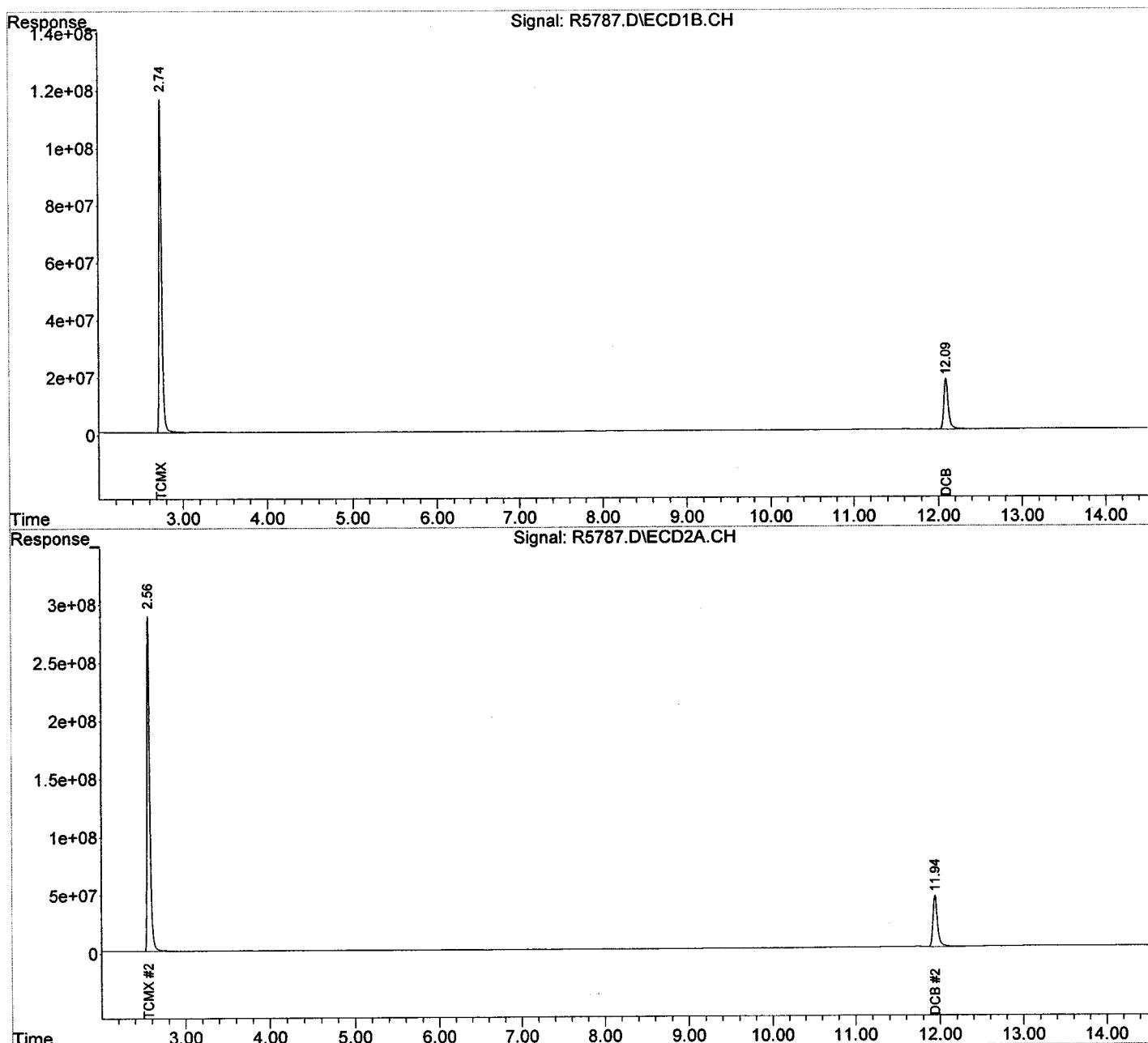
Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
<hr/>						
System Monitoring Compounds						
1) S TCMX	2.74	2.56	2497.6E6	6361.6E6	216.576	266.178
Spiked Amount	200.000			Recovery	= 108.29%	133.09%
2) S DCB	12.09	11.94	677.6E6	1752.5E6	206.831	277.150 #
Spiked Amount	200.000			Recovery	= 103.42%	138.57%
<hr/>						
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000
<hr/>						

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : C:\MSDCHEM\1\DATA\12-10-13\
Data File : R5787.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 10 Dec 2013 16:01
Operator : JS
Sample : PCB, BLKS131210-02, S, 5g, 12:00:00 AM, 20
Misc : NA, 12/10/13, NA, 1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 11 10:09:57 2013
Quant Method : C:\MSDCHEM\1\METHODS\RPCB1115.M
Quant Title :
QLast Update : Fri Nov 15 14:15:52 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



INTEGRATED ANALYTICAL LABORATORIES

PCB's

Lab ID: BLKA131209-25

Client ID: PCB

Date Received: NA

Date Extracted: 12/09/2013

Date Analyzed: 12/11/2013

Data file: Y3443.D

GC Column: DB-5/DB1701P

Sample wt/vol: 1000ml

Matrix-Units: Aqueous- μ g/L (ppb)

Dilution Factor: 1

% Moisture: 100

Compound	Concentration	Q	RL	MDL
Aroclor-1016	ND		0.050	0.020
Aroclor-1221	ND		0.050	0.020
Aroclor-1232	ND		0.050	0.020
Aroclor-1242	ND		0.050	0.020
Aroclor-1248	ND		0.050	0.020
Aroclor-1254	ND		0.050	0.020
Aroclor-1260	ND		0.050	0.020
Aroclor-1262	ND		0.050	0.020
Aroclor-1268	ND		0.050	0.020
PCBs	ND		0.050	0.020

D --- Dilution Performed

J --- Value Less than RL & great than MDL

E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank

C --- Common laboratory contamination

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
 Data File : Y3443.D
 Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
 Acq On : 11 Dec 2013 20:14
 Operator : NG
 Sample : PCB,BLKA131209-25,A,1000ml,100,5
 Misc : NA,12/09/13,NA,1
 ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
 Integration File signal 2: EVENTS2.E
 Quant Time: Dec 12 09:37:32 2013
 Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
 Quant Title :
 QLast Update : Fri Dec 06 11:23:54 2013
 Response via : Initial Calibration
 Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
 Signal #1 Phase : Signal #2 Phase:
 Signal #1 Info : Signal #2 Info :

Compound	RT#1	RT#2	Resp#1	Resp#2	ng#1	ng#2
System Monitoring Compounds						
1) S TCMX	2.77	2.88	3467.4E6	7476.8E6	205.262	216.978
Spiked Amount	200.000			Recovery	= 102.63%	108.49%
Target Compounds						
Sum Aroclor-1016			0	0	N.D.	N.D.
Average Aroclor-1016					0.000	0.000
Sum Aroclor-1221			0	0	N.D.	N.D.
Average Aroclor-1221					0.000	0.000
Sum Aroclor-1232			0	0	N.D.	N.D.
Average Aroclor-1232					0.000	0.000
Sum Aroclor-1242			0	0	N.D.	N.D.
Average Aroclor-1242					0.000	0.000
Sum Aroclor-1248			0	0	N.D.	N.D.
Average Aroclor-1248					0.000	0.000
Sum Aroclor-1254			0	0	N.D.	N.D.
Average Aroclor-1254					0.000	0.000
Sum Aroclor-1260			0	0	N.D.	N.D.
Average Aroclor-1260					0.000	0.000
Sum Aroclor-1262			0	0	N.D.	N.D.
Average Aroclor-1262					0.000	0.000
Sum Aroclor-1268			0	0	N.D.	N.D.
Average Aroclor-1268					0.000	0.000

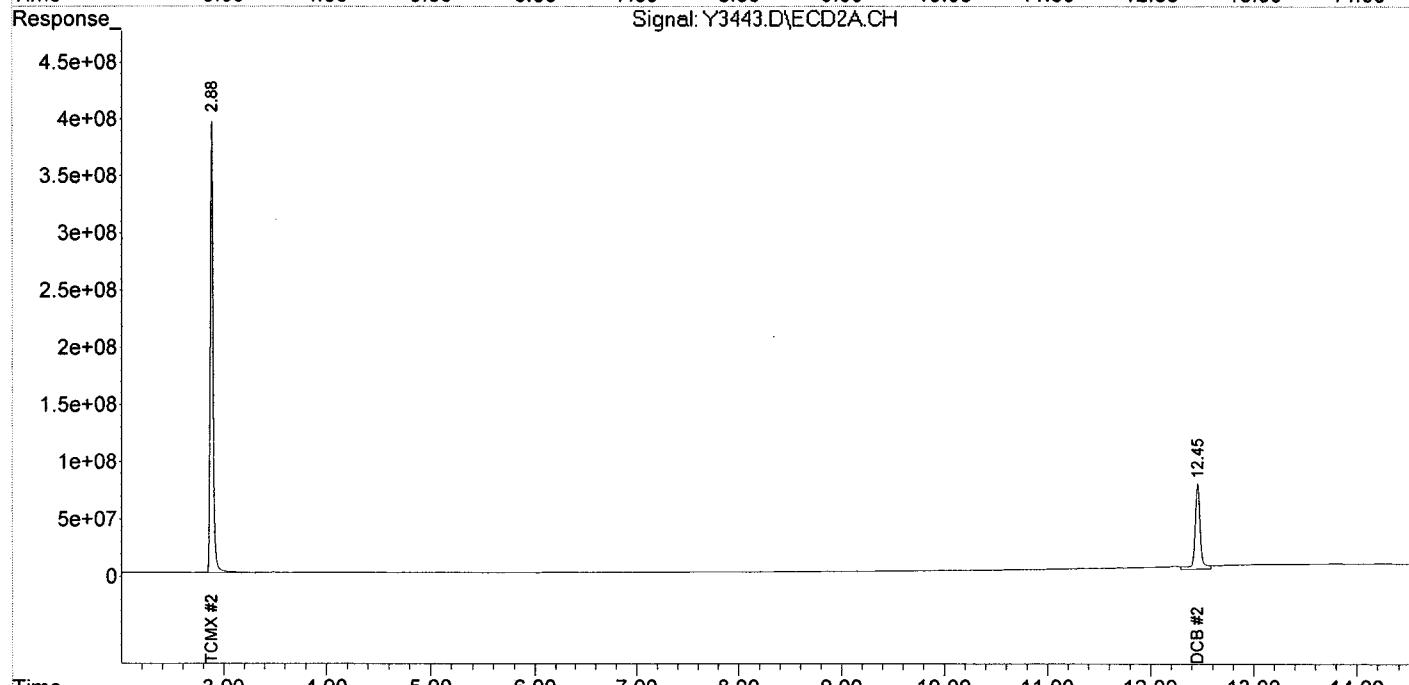
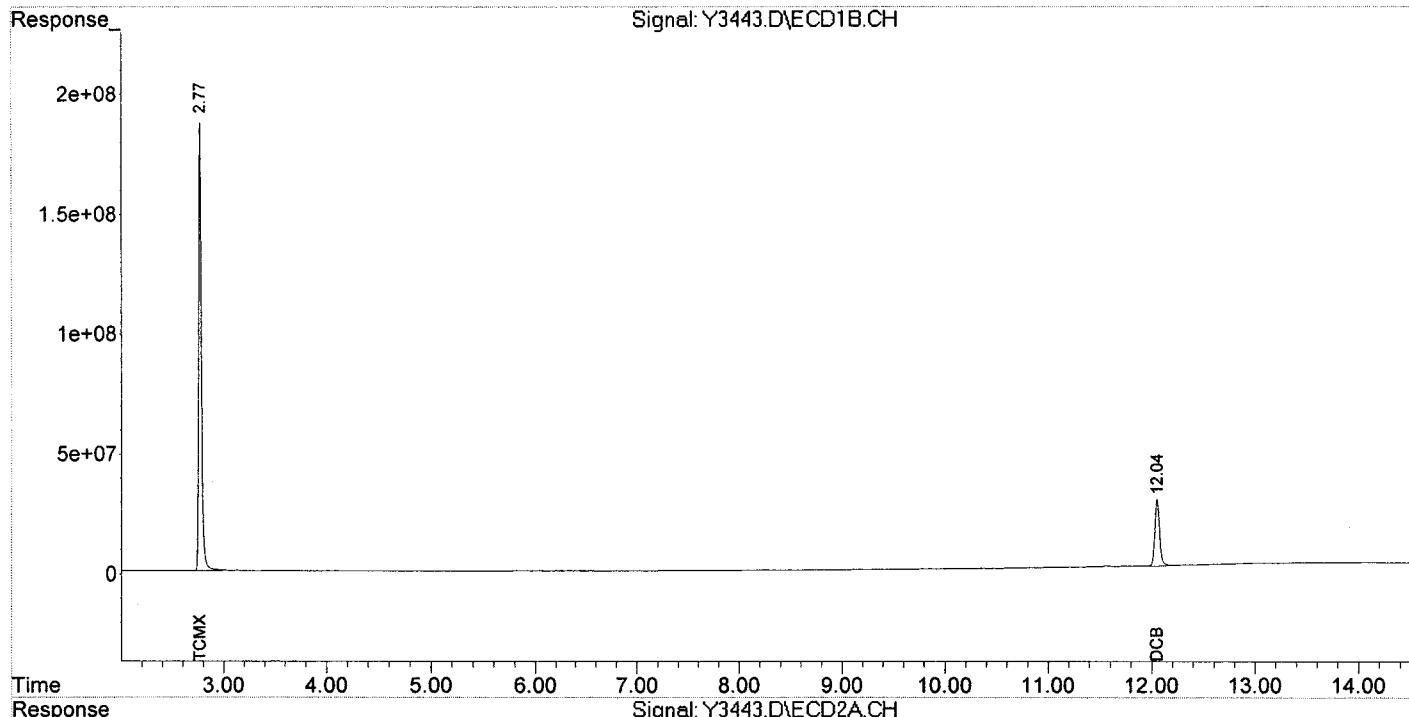
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\12-11-13\
Data File : Y3443.D
Signal(s) : Signal #1: ECD1B.CH Signal #2: ECD2A.CH
Acq On : 11 Dec 2013 20:14
Operator : NG
Sample : PCB.BLKA131209-25,A,1000ml,100,5
Misc : NA,12/09/13,NA,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Dec 12 09:37:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\YPCB1120.M
Quant Title :
QLast Update : Fri Dec 06 11:23:54 2013
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



SAMPLE TRACKING



Integrated Analytical Labs
273 Franklin Rd
Randolph, NJ 07869

Contact Us: 973 361-4252
fax: 973 989-5288
Web: www.ialonline.com

CUSTOMER INFO		REPORTING INFO		Turnaround Time (starts the following day if samples rec'd at lab > 5PM)																
Company: JMC Environmental Consultants, Inc.		REPORT TO: James Clabby		*Lab notification is required for RUSH TAT prior to sample arrival. RUSH TAT IS NOT GUARANTEED WITHOUT LAB APPROVAL. **RUSH SURCHARGES WILL APPLY IF ABLE TO ACCOMMODATE																
Address: 2109 Bridge Ave., Bldg. B		Address: same																		
Point Pleasant, NJ 08742																				
Telephone #: (732) 295-2144		Attn:																		
Fax #: (732) 295-2150		FAX # (732) 295-2150																		
Project Manager: James Clabby		INVOICE TO: Aceto Corp.																		
EMAIL Address: jclabby@jmceenvironmental.com		Address: 4 Tri Harbor Court																		
Sampler: Steve Kosch, Chris Cho		Port Washington, NY 11050																		
Project Name: Arsynco		(with copy to: JMC Environmental (attn.: J. Clabby))																		
Project Location (State): NJ		Attn: Ed Kelly																		
Bottle Order #:		PO # 22126																		
Quote #: SR041205		Sample Matrix																		
DW - Drinking Water AQ - Aqueous WW - Waste Water OI - Oil LIQ - Liquid (Specify) OT - Other (Specify) S - Soil SL - Sludge SOL - Solid W - Wipe																				
SAMPLE INFORMATION		ANALYTICAL PARAMETERS										# BOTTLES & PRESERVATIVES								
Client ID	Depth (ft only)	Date	Time	Matrix	# container(s)	IAL #	TCL PCB (8082)	TCL PCB + Hdd							HCl	HNO3	MeOH	H2SO4	NAOH/ZnAc	Sterile
BB-49 (0-1.0)		12/3/13	10:10	S	1	1	x													
BB-49 (1.0-2.0)			10:11	S	1	2		x												
CC-49 (0-1.0)			10:22	S	1	3	x													
CC-49 (1.0-2.0)			11:05	S	1	4		x												
FB-41			3:12	aq	2	3	x													
Known Hazard: Yes or No		Describe:		Conc. Expected:		Low	Med	High	MDL Req: GWQS (11/05) - SRS - SRS/IGW - SRS Residential - OTHER (SEE COMMENTS)											

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time will not start until any ambiguities have been resolved.

Carrier (check one): IAL Courier Client Courier FedEx/UPS

Signature/Company	Date	Time	Signature/Company	Date	Time
Relinquished by: <i>Steve Kosch</i>	12/3/13	530	Received by: <i>✓</i>	12/3/13	1530
Relinquished by: <i>✓</i>	12/3/13	1720	Received by: <i>✓</i>	12/3/13	1720
Relinquished by: <i>✓</i>			Received by: <i>✓</i>		
Relinquished by: <i>✓</i>			Received by: <i>✓</i>		
Relinquished by: <i>✓</i>			Received by: <i>✓</i>		

Comments:

Lab Case # **11967**

PAGE: **1** of **1**

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

1900
1901

PROJECT INFORMATION

E13-11967: ARSYNCO

To: Jim Clabby
JMC Environmental Consultants
Fax: 1(732) 295-2150
EMail: jclabby@jmcenvironmental.com; ah

Report To

JMC Environmental Consultants
2109 Bridge Avenue
Building B
Point Pleasant, NJ 08742
Attn: Jim Clabby

Bill To

JMC Environmental Consultants
Aceto Corp.
4 Tri Harbor Court
Port Washington, NY 11050
Attn: Mr. Ed Kelly

Report Format	P.O. #	Received At Lab	TPHC Due	Verbal Due	Hardcopy Due
Reduced	22126	Dec 03, 2013 @ 17:20	NA	Dec 18, 2013	Dec 30, 2013 *

* Any *Conditional or Hold* status will delay final hardcopy report sent date.

Diskette Req. SRP TXT

**** QC Requirement (must meet): NJ SRS**

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
11967-001	BB-49(0-1.0)	0/1	12/03/13@10:10	Soil	mg/Kg (ppm)	
11967-002	BB-49(1.0-2.0)	1/2	12/03/13@10:11	Soil	mg/Kg (ppm)	
11967-003	CC-49(0-1.0)	0/1	12/03/13@10:22	Soil	mg/Kg (ppm)	
11967-004	CC-49(1.0-2.0)	1/2	12/03/13@11:05	Soil	mg/Kg (ppm)	
11967-005	FB-41	NA	12/03/13@15:12	Aqueous	mg/L (ppm)	

Sample #	Test	Status	QA Method	TAT	Holding Time Expires
001	TCL PCB	Analyze	8082A	STD/2 WKS	12/17/2013
002	TCL PCB	Analyze	8082A	STD/2 WKS	12/17/2013
	Extract & Hold(PCB)	Analyze	8082A	STD/2 WKS	12/17/2013
003	TCL PCB	Analyze	8082A	STD/2 WKS	12/17/2013
004	TCL PCB	Analyze	8082A	STD/2 WKS	12/17/2013
	Extract & Hold(PCB)	Analyze	8082A	STD/2 WKS	12/17/2013
005	TCL PCB	Analyze	8082A	STD/2 WKS	12/10/2013

Project Notes:

REV 1 taken by kim on 12/06/2013 04:21

REV 01 DUE 12/20

PER CHRIS CHO, ACTIVATE SAMPLES 002 & 004 FOR TCL PCBS, STANDARD TURNAROUND.

SAMPLES WERE PREVIOUSLY EXTRACTED.



INTEGRATED ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIPT VERIFICATION

CASE NO: E 13

11967

CLIENT:

JMC

COOLER TEMPERATURE: 2° - 6°C:

(See Chain of Custody)

Comments

COC: **COMPLETE** / INCOMPLETE

KEY

 = YES/NA = NOVOA received: Encore IGW - Methanol
(check one) Terra Core No Preservative

- Bottles Intact
- no-Missing Bottles
- no-Extra Bottles

- Sufficient Sample Volume
- no-headspace/bubbles in VOs
- Labels intact/correct
- pH Check (exclude VOs)¹
- Correct bottles/preservative
- Sufficient Holding/Prep Time¹
- Multiphasic Sample
- Sample to be Subcontracted
- Chain of Custody is Clear

¹ All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS: _____

SAMPLE(S) VERIFIED BY:	INITIALS	DATE
		12 30
CORRECTIVE ACTION REQUIRED:		YES <input type="checkbox"/> (SEE BELOW) NO <input type="checkbox"/>

If COC is **NOT** clear, **STOP** until you get client to authorize/clarify work.

CLIENT NOTIFIED:

YES Date/ Time: _____ NO

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS: _____

VERIFIED/TAKEN BY:

INITIALS

DATE

12.5.13

E13-11967 00633 REV 03/2013

Laboratory Custody Chronicle

IAL Case No.

E13-11967

Client JMC Environmental Consultants

Project ARSYNCO

Received On 12/3/2013@17:20

Department: GC

TCL PCB	11967-001	Soil	<u>Prep. Date</u>	12/10/13	<u>Analyst</u>	Archimede	<u>Analysis Date</u>	12/10/13	<u>Analyst</u>	Justyna
"	-002	"		12/10/13		Archimede		12/10/13		Justyna
"	-003	"		12/10/13		Archimede		12/10/13		Justyna
"	-004	"		12/10/13		Archimede		12/11/13		Nicole
"	-005	Aqueous		12/ 9/13		Archimede		12/11/13		Nicole